

## Refine Search

### Search Results -

Terms	Documents
L1 and classif\$8 and rules and first near (classifier or elements)	16

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L2

Refine Search

Recall Text

Clear

Interrupt

### Search History

 DATE: Friday, June 17, 2005   [Printable Copy](#)   [Create Case](#)
**Set Name Query**

side by side

**Hit Count Set Name**

result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR

L2   L1 and classif\$8 and rules and first near (classifier or elements)16   L2L1   706/20.ccls.559   L1

END OF SEARCH HISTORY

## Hit List

[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#)  
[Generate OACS](#)

**Search Results - Record(s) 1 through 16 of 16 returned.**

☐ 1. Document ID: US 20040172457 A1

L2: Entry 1 of 16

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040172457  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040172457 A1

TITLE: Integration of a computer-based message priority system with mobile electronic devices

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Horvitz, Eric	Kirkland	WA	US	

US-CL-CURRENT: 709/207; 706/20, 709/224

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 20040162795 A1

L2: Entry 2 of 16

File: PGPB

Aug 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040162795  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040162795 A1

TITLE: Method and system for feature extraction from outgoing messages for use in categorization of incoming messages

PUBLICATION-DATE: August 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dougherty, Jesse	North Vancouver		CA	
Ascher, David	Vancouver		CA	

US-CL-CURRENT: 706/20

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 20040093316 A1

L2: Entry 3 of 16

File: PGPB

May 13, 2004

PGPUB-DOCUMENT-NUMBER: 20040093316  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040093316 A1

TITLE: Method and apparatus for interpreting information

PUBLICATION-DATE: May 13, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Howard, Gary	Sawbridgeworth		GB	
Barson, Paul Colin	Bishops Stortford		GB	
Field, Simon	Harpenden		GB	
Hobson, Philip William	Bishops Stortford		GB	

US-CL-CURRENT: 706/25; 706/20, 706/47

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 4. Document ID: US 20040034609 A1

L2: Entry 4 of 16

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040034609  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040034609 A1

TITLE: Neural cortex

PUBLICATION-DATE: February 19, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Pok, Yang Ming	Singapore		SG	
Mikhailov, Alexei	Singapore		SG	

US-CL-CURRENT: 706/20; 706/26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 5. Document ID: US 20040002931 A1

L2: Entry 5 of 16

File: PGPB

Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002931

PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040002931 A1

TITLE: Probability estimate for K-nearest neighbor

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Platt, John C.	Bellevue	WA	US	
Burges, Christopher J.C.	Bellevue	WA	US	

US-CL-CURRENT: 706/46; 706/20

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	QMC	Drawn De
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☐ 6. Document ID: US 20020165838 A1

L2: Entry 6 of 16

File: PGPB

Nov 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020165838  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020165838 A1

TITLE: Performance analysis of distributed applications using automatic  
classification of communication inefficiencies

PUBLICATION-DATE: November 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Vetter, Jeffrey S.	Pleasanton	CA	US	

US-CL-CURRENT: 706/20

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	QMC	Drawn De
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☐ 7. Document ID: US 6850920 B2

L2: Entry 7 of 16

File: USPT

Feb 1, 2005

US-PAT-NO: 6850920  
DOCUMENT-IDENTIFIER: US 6850920 B2

TITLE: Performance analysis of distributed applications using automatic  
classification of communication inefficiencies

DATE-ISSUED: February 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Vetter; Jeffrey S. Pleasanton CA

US-CL-CURRENT: 706/11; 706/20

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	IMC	Draw De
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☐ 8. Document ID: US 6792418 B1

L2: Entry 8 of 16

File: USPT

Sep 14, 2004

US-PAT-NO: 6792418

DOCUMENT-IDENTIFIER: US 6792418 B1

TITLE: File or database manager systems based on a fractal hierarchical index structure

DATE-ISSUED: September 14, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Binnig; Gerd K.	Wollerau			CH
Bloechl; Peter	Adliswil			CH
Klenk; Juergen	Adliswil			CH

US-CL-CURRENT: 707/3; 704/1, 706/15, 706/20, 707/100, 707/2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	IMC	Draw De
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☐ 9. Document ID: US 6092059 A

L2: Entry 9 of 16

File: USPT

Jul 18, 2000

US-PAT-NO: 6092059

DOCUMENT-IDENTIFIER: US 6092059 A

TITLE: Automatic classifier for real time inspection and classification

DATE-ISSUED: July 18, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Straforini; Marco L.	Kensington	CA		
Lavagnino; Sherrill E.	Oakland	CA		
Badger; John C.	Paris			FR
Wolinsky; Jeffrey M.	Berkeley	CA		
Tilson; Bret R.	Berkeley	CA		

US-CL-CURRENT: 706/14; 706/10, 706/20, 706/47

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D.
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☐ 10. Document ID: US 5974404 A

L2: Entry 10 of 16

File: USPT

Oct 26, 1999

US-PAT-NO: 5974404

DOCUMENT-IDENTIFIER: US 5974404 A

TITLE: Method and apparatus for input classification using a neural network

DATE-ISSUED: October 26, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moed; Michael C.	Norwalk	CT		
Lee; Chih-Ping	Danbury	CT		

US-CL-CURRENT: 706/25; 382/156, 706/20

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D.
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☐ 11. Document ID: US 5793932 A

L2: Entry 11 of 16

File: USPT

Aug 11, 1998

US-PAT-NO: 5793932

DOCUMENT-IDENTIFIER: US 5793932 A

TITLE: Image recognition device and an image recognition method

DATE-ISSUED: August 11, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kuratomi; Yasunori	Suita			JP
Ogawa; Hisahito	Nata-ken			JP

US-CL-CURRENT: 382/190; 382/206, 706/20, 706/40

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D.
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☐ 12. Document ID: US 5638491 A

L2: Entry 12 of 16

File: USPT

Jun 10, 1997

US-PAT-NO: 5638491

DOCUMENT-IDENTIFIER: US 5638491 A

TITLE: Method and apparatus for hierarchical input classification using a neural network

DATE-ISSUED: June 10, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moed; Michael C.	Ridgefield	CT		

US-CL-CURRENT: 706/20; 382/156, 706/28

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw De
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☐ 13. Document ID: US 5505057 A

L2: Entry 13 of 16

File: USPT

Apr 9, 1996

US-PAT-NO: 5505057

DOCUMENT-IDENTIFIER: US 5505057 A

TITLE: Pattern classification system

DATE-ISSUED: April 9, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sato; Masaaki	Kawasaki			JP
Naka; Motohiko	Kawasaki			JP
Shida; Takehiko	Yokohama			JP
Yoshida; Kunio	Kawasaki			JP
Saitoh; Mie	Kawasaki			JP
Akamine; Ikuo	Kusatsu			JP
Shimizu; Makoto	Kyoto			JP
Fujiwara; Katsuhiko	Kusatsu			JP
Yokouchi; Akira	Shiga			JP

US-CL-CURRENT: 62/231; 236/78D, 706/20, 706/904

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw De
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☐ 14. Document ID: US 5452399 A

L2: Entry 14 of 16

File: USPT

Sep 19, 1995

US-PAT-NO: 5452399

DOCUMENT-IDENTIFIER: US 5452399 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Method and apparatus for input classification using a neuron-based voting scheme

DATE-ISSUED: September 19, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moed; Michael C.	Norwalk	CT		

US-CL-CURRENT: 706/20; 382/156

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 15. Document ID: US 5438629 A

L2: Entry 15 of 16

File: USPT

Aug 1, 1995

US-PAT-NO: 5438629

DOCUMENT-IDENTIFIER: US 5438629 A

**\*\* See image for Certificate of Correction \*\***TITLE: Method and apparatus for input classification using non-spherical neurons

DATE-ISSUED: August 1, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moed; Michael C.	Norwalk	CT		
Lee; Chih-Ping	Danbury	CT		

US-CL-CURRENT: 382/156; 382/159, 706/20, 706/25

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 16. Document ID: US 4809347 A

L2: Entry 16 of 16

File: USPT

Feb 28, 1989

US-PAT-NO: 4809347

DOCUMENT-IDENTIFIER: US 4809347 A

TITLE: Computer vision architecture

DATE-ISSUED: February 28, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nash; James G.	Los Angeles	CA		
Shu; David B.	Canoga Park	CA		

US-CL-CURRENT: 382/240; 382/302, 700/259, 700/4, 706/20

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L1 and classif\$8 and rules and first near (classifier or elements)	16

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**Display Format:**  [Change Format](#)

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## Refine Search

### Search Results -

Terms	Documents
L4 and first near (classifier or elements)	9

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L5

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Friday, June 17, 2005   [Printable Copy](#)   [Create Case](#)

**Set Name Query**  
 side by side

**Hit Count Set Name**  
 result set

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR*

<u>L5</u>	L4 and first near (classifier or elements)	9	<u>L5</u>
<u>L4</u>	L3 and outputs and generate	80	<u>L4</u>
<u>L3</u>	L1 and classif\$8 and rules and first and (classifier or elements)	139	<u>L3</u>
<u>L2</u>	L1 and classif\$8 and rules and first near (classifier or elements)	16	<u>L2</u>
<u>L1</u>	706/20.ccls.	559	<u>L1</u>

END OF SEARCH HISTORY

## Hit List

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### Search Results - Record(s) 1 through 9 of 9 returned.

☐ 1. Document ID: US 20040172457 A1

L5: Entry 1 of 9

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040172457

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040172457 A1

TITLE: Integration of a computer-based message priority system with mobile electronic devices

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Horvitz, Eric	Kirkland	WA	US	

US-CL-CURRENT: 709/207; 706/20, 709/224

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 2. Document ID: US 20040093316 A1

L5: Entry 2 of 9

File: PGPB

May 13, 2004

PGPUB-DOCUMENT-NUMBER: 20040093316

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040093316 A1

TITLE: Method and apparatus for interpreting information

PUBLICATION-DATE: May 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Howard, Gary	Sawbridgeworth		GB	
Barson, Paul Colin	Bishops Stortford		GB	
Field, Simon	Harpenden		GB	
Hobson, Philip William	Bishops Stortford		GB	

US-CL-CURRENT: 706/25; 706/20, 706/47

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 3. Document ID: US 20040002931 A1

L5: Entry 3 of 9

File: PGPB

Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002931

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040002931 A1

TITLE: Probability estimate for K-nearest neighbor

PUBLICATION-DATE: January 1, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Platt, John C.	Bellevue	WA	US	
Burges, Christopher J.C.	Bellevue	WA	US	

US-CL-CURRENT: 706/46; 706/20

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 4. Document ID: US 6092059 A

L5: Entry 4 of 9

File: USPT

Jul 18, 2000

US-PAT-NO: 6092059

DOCUMENT-IDENTIFIER: US 6092059 A

TITLE: Automatic classifier for real time inspection and classification

DATE-ISSUED: July 18, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Straforini; Marco L.	Kensington	CA		
Lavagnino; Sherrill E.	Oakland	CA		
Badger; John C.	Paris			FR
Wolinsky; Jeffrey M.	Berkeley	CA		
Tilson; Bret R.	Berkeley	CA		

US-CL-CURRENT: 706/14; 706/10, 706/20, 706/47

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 5. Document ID: US 5974404 A

L5: Entry 5 of 9

File: USPT

Oct 26, 1999

US-PAT-NO: 5974404  
DOCUMENT-IDENTIFIER: US 5974404 A

TITLE: Method and apparatus for input classification using a neural network

DATE-ISSUED: October 26, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moed; Michael C.	Norwalk	CT		
Lee; Chih-Ping	Danbury	CT		

US-CL-CURRENT: 706/25; 382/156, 706/20

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMC	Draw D
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☐ 6. Document ID: US 5638491 A

L5: Entry 6 of 9

File: USPT

Jun 10, 1997

US-PAT-NO: 5638491  
DOCUMENT-IDENTIFIER: US 5638491 A

TITLE: Method and apparatus for hierarchical input classification using a neural network

DATE-ISSUED: June 10, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moed; Michael C.	Ridgefield	CT		

US-CL-CURRENT: 706/20; 382/156, 706/28

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMC	Draw D
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☐ 7. Document ID: US 5505057 A

L5: Entry 7 of 9

File: USPT

Apr 9, 1996

US-PAT-NO: 5505057  
DOCUMENT-IDENTIFIER: US 5505057 A

TITLE: Pattern classification system

DATE-ISSUED: April 9, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sato; Masaaki	Kawasaki			JP

Naka; Motohiko	Kawasaki	JP
Shida; Takehiko	Yokohama	JP
Yoshida; Kunio	Kawasaki	JP
Saitoh; Mie	Kawasaki	JP
Akamine; Ikuo	Kusatsu	JP
Shimizu; Makoto	Kyoto	JP
Fujiwara; Katsuhiko	Kusatsu	JP
Yokouchi; Akira	Shiga	JP

US-CL-CURRENT: 62/231; 236/78D, 706/20, 706/904

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Da
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☐ 8. Document ID: US 5452399 A

L5: Entry 8 of 9

File: USPT

Sep 19, 1995

US-PAT-NO: 5452399

DOCUMENT-IDENTIFIER: US 5452399 A

**\*\* See image for Certificate of Correction \*\***TITLE: Method and apparatus for input classification using a neuron-based voting scheme

DATE-ISSUED: September 19, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moed; Michael C.	Norwalk	CT		

US-CL-CURRENT: 706/20; 382/156

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Da
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☐ 9. Document ID: US 5438629 A

L5: Entry 9 of 9

File: USPT

Aug 1, 1995

US-PAT-NO: 5438629

DOCUMENT-IDENTIFIER: US 5438629 A

**\*\* See image for Certificate of Correction \*\***TITLE: Method and apparatus for input classification using non-spherical neurons

DATE-ISSUED: August 1, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moed; Michael C.	Norwalk	CT		
Lee; Chih-Ping	Danbury	CT		

US-CL-CURRENT: 382/156; 382/159, 706/20, 706/25

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWOC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L4 and first near (classifier or elements)	9

**Display Format:**

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## Refine Search

### Search Results -

Terms	Documents
L7 and rules	49

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
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 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L8

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Friday, June 17, 2005    [Printable Copy](#)    [Create Case](#)

<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
side by side			
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR</i>			
<u>L8</u>	L7 and rules	49	<u>L8</u>
<u>L7</u>	L6 and first near classifier	49	<u>L7</u>
<u>L6</u>	classif\$8 and rules and first and (classifier or elements) and outputs and generate	4824	<u>L6</u>
<u>L5</u>	L4 and first near (classifier or elements)	9	<u>L5</u>
<u>L4</u>	L3 and outputs and generate	80	<u>L4</u>
<u>L3</u>	L1 and classif\$8 and rules and first and (classifier or elements)	139	<u>L3</u>
<u>L2</u>	L1 and classif\$8 and rules and first near (classifier or elements)	16	<u>L2</u>
<u>L1</u>	706/20.ccls.	559	<u>L1</u>

END OF SEARCH HISTORY

## Hit List

Clear

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Fwd Refs

Bkwd Refs

Generate OACS

**Search Results - Record(s) 1 through 49 of 49 returned.**☐ 1. Document ID: US 20050059876 A1

L8: Entry 1 of 49

File: PGPB

Mar 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050059876

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050059876 A1

TITLE: Systems and methods for providing automated regional myocardial assessment for cardiac imaging

PUBLICATION-DATE: March 17, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Krishnan, Sriram	Exton	PA	US	
Rao, R. Bharat	Berwyn	PA	US	
Bennett, Richard M.	Half Moon Bay	CA	US	

US-CL-CURRENT: 600/407; 128/920, 600/410, 600/425, 600/437

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Ds
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☐ 2. Document ID: US 20050049855 A1

L8: Entry 2 of 49

File: PGPB

Mar 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050049855

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050049855 A1

TITLE: Method and apparatus for frame classification and rate determination in voice transcoders for telecommunications

PUBLICATION-DATE: March 3, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chong-White, Nicola	Greenwich NSW		AU	
Wang, Jianwei	Killarney Heights NSW		AU	
Jabri, Marwan A.	Broadway NSW		AU	

US-CL-CURRENT: 704/219

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWOC	Draw Dg
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☐ 3. Document ID: US 20050049852 A1

L8: Entry 3 of 49

File: PGPB

Mar 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050049852

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050049852 A1

TITLE: Adaptive and scalable method for resolving natural language ambiguities

PUBLICATION-DATE: March 3, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chao, Gerald CheShun	Los Angeles	CA	US	

US-CL-CURRENT: 704/9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWOC	Draw Dg
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☐ 4. Document ID: US 20050020903 A1

L8: Entry 4 of 49

File: PGPB

Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050020903

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050020903 A1

TITLE: Systems and methods for automated diagnosis and decision support for heart related diseases and conditions

PUBLICATION-DATE: January 27, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Krishnan, Sriam	Exton	PA	US	
Gupta, Alok	Bryn Mawr	PA	US	
Rao, R. Bharat	Berwyn	PA	US	
Comaniciu, Dorin	Princeton	NJ	US	
Zhou, Xiang Sean	Plainsboro	NJ	US	

US-CL-CURRENT: 600/407; 128/920, 128/925

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWOC	Draw Dg
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☐ 5. Document ID: US 20040267893 A1

L8: Entry 5 of 49

File: PGPB

Dec 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040267893

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040267893 A1

TITLE: Fuzzy logic voting method and system for classifying E-mail using inputs from multiple spam classifiers

PUBLICATION-DATE: December 30, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lin, Wei	Denver	CO	US	

US-CL-CURRENT: 709/207

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 6. Document ID: US 20040236719 A1

L8: Entry 6 of 49

File: PGPB

Nov 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040236719

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040236719 A1

TITLE: Transmitting information given constrained resources

PUBLICATION-DATE: November 25, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Horvitz, Eric	Seattle	WA	US	

US-CL-CURRENT: 707/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 7. Document ID: US 20040236611 A1

L8: Entry 7 of 49

File: PGPB

Nov 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040236611

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040236611 A1

TITLE: System and process for a neural network classification for insurance underwriting suitable for use by an automated system

PUBLICATION-DATE: November 25, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bonissone, Piero Patrone	Schenectady	NY	US	
Subbu, Rajesh Venkat	Troy	NY	US	
Yan, Weizhong	Clifton Park	NY	US	
Chakraborty, Anindya	Schenectady	NY	US	

US-CL-CURRENT: 705/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK	Drawn De
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☐ 8. Document ID: US 20040220840 A1

L8: Entry 8 of 49

File: PGPB

Nov 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040220840

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040220840 A1

TITLE: System and process for multivariate adaptive regression splines  
classification for insurance underwriting suitable for use by an automated system

PUBLICATION-DATE: November 4, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bonissone, Piero Patrone	Schenectady	NY	US	
Messmer, Richard Paul	Rexford	NY	US	
Subbu, Rajesh Venkat	Troy	NY	US	
Yan, Weizhong	Clifton Park	NY	US	
Chakraborty, Anindya	Schenectady	NY	US	

US-CL-CURRENT: 705/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK	Drawn De
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☐ 9. Document ID: US 20040220839 A1

L8: Entry 9 of 49

File: PGPB

Nov 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040220839

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040220839 A1

TITLE: System and process for dominance classification for insurance underwriting  
suitable for use by an automated system

PUBLICATION-DATE: November 4, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bonissone, Piero Patrone	Schenectady	NY	US	
Iyer, Naresh Sundaram	Clifton Park	NY	US	

US-CL-CURRENT: 705/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 10. Document ID: US 20040220838 A1

L8: Entry 10 of 49

File: PGPB

Nov 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040220838

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040220838 A1

TITLE: System and process for detecting outliers for insurance underwriting suitable for use by an automated system

PUBLICATION-DATE: November 4, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bonissone, Piero Patrone	Schenectady	NY	US	
Iyer, Naresh Sundaram	Clifton Park	NY	US	

US-CL-CURRENT: 705/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 11. Document ID: US 20040220837 A1

L8: Entry 11 of 49

File: PGPB

Nov 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040220837

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040220837 A1

TITLE: System and process for a fusion classification for insurance underwriting suitable for use by an automated system

PUBLICATION-DATE: November 4, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bonissone, Piero Patrone	Schenectady	NY	US	
Aggour, Kareem Sherif	Niskayuna	NY	US	
Subbu, Rajesh Venkat	Troy	NY	US	
Yan, Weizhong	Clifton Park	NY	US	

Iyer, Naresh Sundaram                      Clifton Park              NY              US  
Chakraborty, Anindya                      Schenectady              NY              US

US-CL-CURRENT: 705/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 12. Document ID: US 20040215606 A1

L8: Entry 12 of 49

File: PGPB

Oct 28, 2004

PGPUB-DOCUMENT-NUMBER: 20040215606  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040215606 A1

TITLE: Method and apparatus for machine learning a document relevance function

PUBLICATION-DATE: October 28, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cossock, David	Berkeley	CA	US	

US-CL-CURRENT: 707/3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 13. Document ID: US 20040172483 A1

L8: Entry 13 of 49

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040172483  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040172483 A1

TITLE: Methods for routing items for communications based on a measure of criticality

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Horvitz, Eric	Kirkland	WA	US	

US-CL-CURRENT: 709/240; 709/206

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 14. Document ID: US 20040172457 A1

L8: Entry 14 of 49

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040172457  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040172457 A1

TITLE: Integration of a computer-based message priority system with mobile electronic devices

PUBLICATION-DATE: September 2, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Horvitz, Eric	Kirkland	WA	US	

US-CL-CURRENT: 709/207; 706/20, 709/224

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 15. Document ID: US 20040015557 A1

L8: Entry 15 of 49

File: PGPB

Jan 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040015557  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040015557 A1

TITLE: Methods for routing items for communications based on a measure of criticality

PUBLICATION-DATE: January 22, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Horvitz, Eric	Kirkland	WA	US	

US-CL-CURRENT: 709/206

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 16. Document ID: US 20040003087 A1

L8: Entry 16 of 49

File: PGPB

Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040003087  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040003087 A1

TITLE: Method for improving performance in a computer storage system by regulating resource requests from clients

PUBLICATION-DATE: January 1, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chambliss, David Darden	Morgan Hill	CA	US	
Jadav, Divyesh	San Jose	CA	US	

US-CL-CURRENT: 709/226

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 17. Document ID: US 20040002931 A1

L8: Entry 17 of 49

File: PGPB

Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002931

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040002931 A1

TITLE: Probability estimate for K-nearest neighbor

PUBLICATION-DATE: January 1, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Platt, John C.	Bellevue	WA	US	
Burges, Christopher J.C.	Bellevue	WA	US	

US-CL-CURRENT: 706/46; 706/20

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 18. Document ID: US 20030208488 A1

L8: Entry 18 of 49

File: PGPB

Nov 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030208488

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030208488 A1

TITLE: System and method for organizing, compressing and structuring data for data mining readiness

PUBLICATION-DATE: November 6, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Perrizo, William K.	Fargo	ND	US	

US-CL-CURRENT: 707/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWAC	Draw D
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☐ 19. Document ID: US 20030172043 A1

L8: Entry 19 of 49

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030172043  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030172043 A1

TITLE: Methods of identifying patterns in biological systems and uses thereof

PUBLICATION-DATE: September 11, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Guyon, Isabelle	Berkeley	CA	US	
Weston, Jason	St. Leonard's on Sea		GB	

US-CL-CURRENT: 706/48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWAC	Draw D
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☐ 20. Document ID: US 20020164070 A1

L8: Entry 20 of 49

File: PGPB

Nov 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020164070  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020164070 A1

TITLE: Automatic algorithm generation

PUBLICATION-DATE: November 7, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kuhner, Mark B.	Upper Arlington	OH	US	
Burgoon, David A.	Columbus	OH	US	
Keller, Paul E.	Richland	WA	US	
Rust, Steven W.	Worthington	OH	US	
Schelhorn, Jean E.	Granville Township	OH	US	
Sinnott, Loraine T.	Columbus	OH	US	
Stark, Gregory V.	Columbus	OH	US	
Taylor, Kevin M.	Upper Arlington	OH	US	
Whitney, Paul D.	Richland	WA	US	

US-CL-CURRENT: 382/159; 382/190, 382/224

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 21. Document ID: US 20010042087 A1

L8: Entry 21 of 49

File: PGPB

Nov 15, 2001

PGPUB-DOCUMENT-NUMBER: 20010042087

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010042087 A1

TITLE: AN AUTOMATED ASSISTANT FOR ORGANIZING ELECTRONIC DOCUMENTS

PUBLICATION-DATE: November 15, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
KEPHART, JEFFREY OWEN	CORTLAND MANOR	NY	US	
SEGAL, RICHARD BRIAN	OSSINING	NY	US	
WHITE, STEVE RICHARD	NEW YORK	NY	US	

US-CL-CURRENT: 715/530

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 22. Document ID: US 6801662 B1

L8: Entry 22 of 49

File: USPT

Oct 5, 2004

US-PAT-NO: 6801662

DOCUMENT-IDENTIFIER: US 6801662 B1

TITLE: Sensor fusion architecture for vision-based occupant detection

DATE-ISSUED: October 5, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Owechko; Yuri	Newbury Park	CA		
Srinivasa; Narayan	Moorpark	CA		
Medasani; Swarup S.	Thousand Oaks	CA		
Boscolo; Riccardo	Culver City	CA		

US-CL-CURRENT: 382/224; 382/103, 382/104, 382/284, 701/45

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 23. Document ID: US 6714967 B1

L8: Entry 23 of 49

File: USPT

Mar 30, 2004

US-PAT-NO: 6714967

DOCUMENT-IDENTIFIER: US 6714967 B1

TITLE: Integration of a computer-based message priority system with mobile electronic devices

DATE-ISSUED: March 30, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Horvitz; Eric	Kirkland	WA		

US-CL-CURRENT: 709/206; 370/265, 370/466, 706/45, 706/47, 709/204, 709/207, 709/232, 718/101, 718/103

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw Ds
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☐ 24. Document ID: US 6622160 B1

L8: Entry 24 of 49

File: USPT

Sep 16, 2003

US-PAT-NO: 6622160

DOCUMENT-IDENTIFIER: US 6622160 B1

TITLE: Methods for routing items for communications based on a measure of criticality

DATE-ISSUED: September 16, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Horvitz; Eric	Kirkland	WA		

US-CL-CURRENT: 709/206; 709/207

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw Ds
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☐ 25. Document ID: US 6199047 B1

L8: Entry 25 of 49

File: USPT

Mar 6, 2001

US-PAT-NO: 6199047

DOCUMENT-IDENTIFIER: US 6199047 B1

TITLE: Apparatus and method for an event rating engine

DATE-ISSUED: March 6, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dimino; James	Arvad	CO		

Smith; Mitchell W.	Boulder	CO
Bones; David	Boulder	CO
Bell; Brigham	Boulder	CO

US-CL-CURRENT: 705/10; 379/114.01

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 26. Document ID: US 6185336 B1

L8: Entry 26 of 49

File: USPT

Feb 6, 2001

US-PAT-NO: 6185336

DOCUMENT-IDENTIFIER: US 6185336 B1

TITLE: Method and system for classifying a halftone pixel based on noise injected halftone frequency estimation

DATE-ISSUED: February 6, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Clark; Raymond J.	Webster	NY		
Schweid; Stuart A.	Pittsford	NY		

US-CL-CURRENT: 382/224; 358/1.9, 382/176, 382/237

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 27. Document ID: US 6148104 A

L8: Entry 27 of 49

File: USPT

Nov 14, 2000

US-PAT-NO: 6148104

DOCUMENT-IDENTIFIER: US 6148104 A

TITLE: Incremental ideographic character input method

DATE-ISSUED: November 14, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wang; Chung-Ning	San Jose	CA		
Platt; John C.	Fremont	CA		
Matic; Nada P.	San Jose	CA		

US-CL-CURRENT: 382/185; 382/187, 382/189

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 28. Document ID: US 6137899 A

L8: Entry 28 of 49

File: USPT

Oct 24, 2000

US-PAT-NO: 6137899

DOCUMENT-IDENTIFIER: US 6137899 A

TITLE: Apparatus for the identification of free-lying cells

DATE-ISSUED: October 24, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Shih-Jong J.	Bellevue	WA		
Wilhelm; Paul S.	Kirkland	WA		
Bannister; Wendy R.	Seattle	WA		
Kuan; Chih-Chau L.	Redmond	WA		
Oh; Seho	Mukilteo	WA		
Meyer; Michael G.	Seattle	WA		

US-CL-CURRENT: 382/133; 382/134, 382/226, 382/228

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 29. Document ID: US 6134354 A

L8: Entry 29 of 49

File: USPT

Oct 17, 2000

US-PAT-NO: 6134354

DOCUMENT-IDENTIFIER: US 6134354 A

TITLE: Apparatus for the identification of free-lying cells

DATE-ISSUED: October 17, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Shih-Jong J.	Bellevue	WA		
Wilhelm; Paul S.	Kirkland	WA		
Bannister; Wendy R.	Seattle	WA		
Kuan; Chih-Chau L.	Redmond	WA		
Oh; Seho	Mukilteo	WA		
Meyer; Michael G.	Seattle	WA		

US-CL-CURRENT: 382/270; 382/133, 382/274, 382/308

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 30. Document ID: US 6092059 A

L8: Entry 30 of 49

File: USPT

Jul 18, 2000

US-PAT-NO: 6092059

DOCUMENT-IDENTIFIER: US 6092059 A

TITLE: Automatic classifier for real time inspection and classification

DATE-ISSUED: July 18, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Straforini; Marco L.	Kensington	CA		
Lavagnino; Sherrill E.	Oakland	CA		
Badger; John C.	Paris			FR
Wolinsky; Jeffrey M.	Berkeley	CA		
Tilson; Bret R.	Berkeley	CA		

US-CL-CURRENT: 706/14; 706/10, 706/20, 706/47

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KNOW	Draw Dg
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☐ 31. Document ID: US 6075880 A

L8: Entry 31 of 49

File: USPT

Jun 13, 2000

US-PAT-NO: 6075880

DOCUMENT-IDENTIFIER: US 6075880 A

TITLE: Method for detection of defects in the inspection of structured surfaces

DATE-ISSUED: June 13, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kollhof; Dietmar	Ilmenau			DE
Wienecke; Joachim	Jena			DE
Franke; Karl-Heinz	Ilmenau			DE
Graef; Michael	Jena			DE
Kempe; Heiko	Geraberg			DE

US-CL-CURRENT: 382/141; 382/144, 382/147

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KNOW	Draw Dg
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☐ 32. Document ID: US 6028959 A

L8: Entry 32 of 49

File: USPT

Feb 22, 2000

US-PAT-NO: 6028959

DOCUMENT-IDENTIFIER: US 6028959 A

TITLE: Incremental ideographic character input method

DATE-ISSUED: February 22, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wang; Chung-Ning	San Jose	CA		
Platt; John C.	Fremont	CA		
Matic; Nada P.	San Jose	CA		

US-CL-CURRENT: 382/185; 382/187

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMOC	Draw Ds
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☐ 33. Document ID: US 5978497 A

L8: Entry 33 of 49

File: USPT

Nov 2, 1999

US-PAT-NO: 5978497

DOCUMENT-IDENTIFIER: US 5978497 A

TITLE: Apparatus for the identification of free-lying cells

DATE-ISSUED: November 2, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Shih-Jong J.	Bellevue	WA		
Wilhelm; Paul S.	Kirkland	WA		
Bannister; Wendy R.	Seattle	WA		
Kuan; Chih-Chau L.	Redmond	WA		
Oh; Seho	Mukilteo	WA		
Meyer; Michael G.	Seattle	WA		

US-CL-CURRENT: 382/133; 382/173, 382/190, 382/224

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMOC	Draw Ds
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☐ 34. Document ID: US 5974404 A

L8: Entry 34 of 49

File: USPT

Oct 26, 1999

US-PAT-NO: 5974404

DOCUMENT-IDENTIFIER: US 5974404 A

TITLE: Method and apparatus for input classification using a neural network

DATE-ISSUED: October 26, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moed; Michael C.	Norwalk	CT		
Lee; Chih-Ping	Danbury	CT		

US-CL-CURRENT: 706/25; 382/156, 706/20

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KNOW	Draw D
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☐ 35. Document ID: US 5926566 A

L8: Entry 35 of 49

File: USPT

Jul 20, 1999

US-PAT-NO: 5926566

DOCUMENT-IDENTIFIER: US 5926566 A

TITLE: Incremental ideographic character input method

DATE-ISSUED: July 20, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wang; Chung-Ning	San Jose	CA		
Platt; John C.	Fremont	CA		
Matic; Nada P.	San Jose	CA		

US-CL-CURRENT: 382/185; 382/187, 382/189

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KNOW	Draw D
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☐ 36. Document ID: US 5835901 A

L8: Entry 36 of 49

File: USPT

Nov 10, 1998

US-PAT-NO: 5835901

DOCUMENT-IDENTIFIER: US 5835901 A

TITLE: Perceptive system including a neural network

DATE-ISSUED: November 10, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Duvoisin, III; Herbert	Orlando	FL		
Beck; Hal E.	Knoxville	TN		
Brown; Joe R.	Austin	TX		
Bower; Mark	Winder Park	FL		

US-CL-CURRENT: 706/19; 706/16, 706/25, 706/31

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw D
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☐ 37. Document ID: US 5835630 A

L8: Entry 37 of 49

File: USPT

Nov 10, 1998

US-PAT-NO: 5835630

DOCUMENT-IDENTIFIER: US 5835630 A

TITLE: Modular time-varying two-dimensional filter

DATE-ISSUED: November 10, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schweid; Stuart A.	Henrietta	NY		
Williams; Dawn M.	Webster	NY		

US-CL-CURRENT: 382/173; 382/176, 382/260, 382/261

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw D
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☐ 38. Document ID: US 5828776 A

L8: Entry 38 of 49

File: USPT

Oct 27, 1998

US-PAT-NO: 5828776

DOCUMENT-IDENTIFIER: US 5828776 A

TITLE: Apparatus for identification and integration of multiple cell patterns

DATE-ISSUED: October 27, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Shih-Jong J.	Bellevue	WA		
Kuan; Chih-Chau L.	Redmond	WA		
Bannister; Wendy R.	Seattle	WA		
Wilhelm; Paul S.	Kirkland	WA		
Meyer; Michael G.	Seattle	WA		

US-CL-CURRENT: 382/133; 382/128, 382/224

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw D
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☐ 39. Document ID: US 5799101 A

L8: Entry 39 of 49

File: USPT

Aug 25, 1998

US-PAT-NO: 5799101

DOCUMENT-IDENTIFIER: US 5799101 A

TITLE: Method and apparatus for highly efficient computer aided screening

DATE-ISSUED: August 25, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Shih-Jong J.	Bellevue	WA		
Oh; Seho	Mukilteo	WA		
Patten; Stanley F.	Issaquah	WA		
Nelson; Alan C.	Redmond	WA		
Nelson; Larry A.	Bellevue	WA		

US-CL-CURRENT: 382/133; 128/922, 356/42, 382/134

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMAC	Draw De
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☐ 40. Document ID: US 5778156 A

L8: Entry 40 of 49

File: USPT

Jul 7, 1998

US-PAT-NO: 5778156

DOCUMENT-IDENTIFIER: US 5778156 A

TITLE: Method and system for implementing fuzzy image processing of image data

DATE-ISSUED: July 7, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schweid; Stuart A.	Henrietta	NY		
Beikirch; Thomas R.	Rochester	NY		
Williams; Leon C.	Walworth	NY		

US-CL-CURRENT: 706/52; 382/176, 382/261

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMAC	Draw De
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☐ 41. Document ID: US 5765029 A

L8: Entry 41 of 49

File: USPT

Jun 9, 1998

US-PAT-NO: 5765029

DOCUMENT-IDENTIFIER: US 5765029 A

TITLE: Method and system for fuzzy image classification

DATE-ISSUED: June 9, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schweid; Stuart A.	Henrietta	NY		
Shiau; Jeng-Nan	Webster	NY		
Clark; Raymond J.	Webster	NY		

US-CL-CURRENT: 706/52; 382/173, 706/900

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMOC	Draw D
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☐ 42. Document ID: US 5751862 A

L8: Entry 42 of 49

File: USPT

May 12, 1998

US-PAT-NO: 5751862

DOCUMENT-IDENTIFIER: US 5751862 A

TITLE: Self-timed two-dimensional filter

DATE-ISSUED: May 12, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Williams; Dawn M.	Webster	NY		
Schweid; Stuart A.	Henrietta	NY		

US-CL-CURRENT: 382/260; 358/448, 382/254

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMOC	Draw D
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☐ 43. Document ID: US 5664067 A

L8: Entry 43 of 49

File: USPT

Sep 2, 1997

US-PAT-NO: 5664067

DOCUMENT-IDENTIFIER: US 5664067 A

TITLE: Method and apparatus for training a neural network

DATE-ISSUED: September 2, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moed; Michael C.	Norwalk	CT		
Lee; Chih-Ping	Danbury	CT		

US-CL-CURRENT: 706/25; 706/28, 706/31

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D.
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☐ 44. Document ID: US 5638491 A

L8: Entry 44 of 49

File: USPT

Jun 10, 1997

US-PAT-NO: 5638491

DOCUMENT-IDENTIFIER: US 5638491 A

TITLE: Method and apparatus for hierarchical input classification using a neural network

DATE-ISSUED: June 10, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moed; Michael C.	Ridgefield	CT		

US-CL-CURRENT: 706/20; 382/156, 706/28

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D.
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☐ 45. Document ID: US 5634084 A

L8: Entry 45 of 49

File: USPT

May 27, 1997

US-PAT-NO: 5634084

DOCUMENT-IDENTIFIER: US 5634084 A

TITLE: Abbreviation and acronym/initialism expansion procedures for a text to speech reader

DATE-ISSUED: May 27, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Malsheen; Bathsheba J.	San Francisco	CA		
Groner; Gabriel F.	Palo Alto	CA		
Disner; Sandra F.	Los Angeles	CA		

US-CL-CURRENT: 704/260

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D.
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☐ 46. Document ID: US 5627908 A

L8: Entry 46 of 49

File: USPT

May 6, 1997

US-PAT-NO: 5627908

DOCUMENT-IDENTIFIER: US 5627908 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Method for cytological system dynamic normalization

DATE-ISSUED: May 6, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Shih-Jong J.	Bellevue	WA		
Nelson; Alan C.	Redmond	WA		
Nelson; Larry A.	Bellevue	WA		
Youngmann; Carl E.	Seattle	WA		
Frost; Keith L.	Seattle	WA		

US-CL-CURRENT: 382/133; 382/128, 382/270

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KBAC	Draw Pa
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☐ 47. Document ID: US 5452399 A

L8: Entry 47 of 49

File: USPT

Sep 19, 1995

US-PAT-NO: 5452399

DOCUMENT-IDENTIFIER: US 5452399 A

**\*\* See image for Certificate of Correction \*\***TITLE: Method and apparatus for input classification using a neuron-based voting scheme

DATE-ISSUED: September 19, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moed; Michael C.	Norwalk	CT		

US-CL-CURRENT: 706/20; 382/156

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KBAC	Draw Pa
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☐ 48. Document ID: US 5438629 A

L8: Entry 48 of 49

File: USPT

Aug 1, 1995

US-PAT-NO: 5438629

DOCUMENT-IDENTIFIER: US 5438629 A

**\*\* See image for Certificate of Correction \*\***TITLE: Method and apparatus for input classification using non-spherical neurons

DATE-ISSUED: August 1, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moed; Michael C.	Norwalk	CT		
Lee; Chih-Ping	Danbury	CT		

US-CL-CURRENT: 382/156; 382/159, 706/20, 706/25

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KNOW	Draw De
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☐ 49. Document ID: US 4881178 A

L8: Entry 49 of 49

File: USPT

Nov 14, 1989

US-PAT-NO: 4881178

DOCUMENT-IDENTIFIER: US 4881178 A

TITLE: Method of controlling a classifier system

DATE-ISSUED: November 14, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Holland; John H.	Ann Arbor	MI		
Burks; Arthur W.	Ann Arbor	MI		

US-CL-CURRENT: 706/12; 706/45

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KNOW	Draw De
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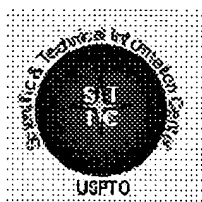
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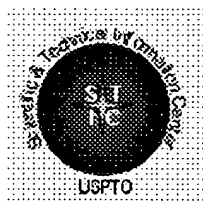
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*(Dictionaries, Acronyms Finders, Encyclopedias)*

Efunda

*(30,000 pages of engineering fundamentals and calculators)*

Encyclopedia Britannica

Encyclopedia of Software Engineering

Eric Weisstein's World of Mathematics

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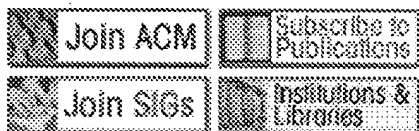
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### 1 [Delegating classifiers](#)

César Ferri, Peter Flach, José Hernández-Orallo

 July 2004 **Twenty-first international conference on Machine learning**

 Full text available: [pdf\(631.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

A sensible use of classifiers must be based on the estimated reliability of their predictions. A cautious classifier would delegate the difficult or uncertain predictions to other, possibly more specialised, classifiers. In this paper we analyse and develop this idea of delegating classifiers in a systematic way. First, we design a two-step scenario where a first classifier chooses which examples to classify and delegates the difficult examples to train a second classifier. Secondly, we present ...

### 2 [Holland classifier systems](#)

Andreas Geyer-Schulz

 June 1995 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on Applied programming languages**, Volume 25 Issue 4

 Full text available: [pdf\(1.28 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A Holland classifier system is an adaptive, general purpose machine learning system which is designed to operate in noisy environments with infrequent and often incomplete feedback. Examples of such environments are financial markets, stock management systems, or chemical processes. In financial markets, a Holland classifier system would develop trading strategies, in a stock management system order heuristics, and in a chemical plant it would perform process control. In this paper we descr ...

**Keywords:** bucket brigade, classifier system, genetic algorithm, machine learning, triggered operations

### 3 [The click modular router](#)

Eddie Kohler, Robert Morris, Benjie Chen, John Jannotti, M. Frans Kaashoek

 August 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 3

 Full text available: [pdf\(376.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Clicks is a new software architecture for building flexible and configurable routers. A Click router is assembled from packet processing modules called elements. Individual elements

implement simple router functions like packet classification, queuing, scheduling, and interfacing with network devices. A router configurable is a directed graph with elements at the vertices; packets flow along the edges of the graph. Several features make individual elements more powerful and ...

**Keywords:** component systems, routers, software router performance

4 Attention and integration: Providing the basis for human-robot-interaction: a multi-modal attention system for a mobile robot 

Sebastian Lang, Marcus Kleinhagenbrock, Sascha Hohenner, Jannik Fritsch, Gernot A. Fink, Gerhard Sagerer

November 2003 **Proceedings of the 5th international conference on Multimodal interfaces**

Full text available:  [pdf\(189.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


In order to enable the widespread use of robots in home and office environments, systems with natural interaction capabilities have to be developed. A prerequisite for natural interaction is the robot's ability to automatically recognize when and how long a person's attention is directed towards it for communication. As in open environments several persons can be present simultaneously, the detection of the communication partner is of particular importance. In this paper we present an attention ...

**Keywords:** attention, human-robot-interaction, multi-modal person tracking

5 Posters: Image classification using hybrid neural networks 

Chih-Fong Tsai, Ken McGarry, John Tait

July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval**

Full text available:  [pdf\(199.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Use of semantic content is one of the major issues which needs to be addressed for improving image retrieval effectiveness. We present a new approach to classify images based on the combination of image processing techniques and hybrid neural networks. Multiple keywords are assigned to an image to represent its main contents, i.e. semantic content. Images are divided into a number of regions and colour and texture features are extracted. The first classifier, a self-organising map (SOM) clusters ...

**Keywords:** content-based image retrieval, image indexing/classification, neural networks

6 Email classification with co-training 

Svetlana Kiritchenko, Stan Matwin

November 2001 **Proceedings of the 2001 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(228.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

The main problems in text classification are lack of labeled data, as well as the cost of labeling the unlabeled data. We address these problems by exploring co-training - an algorithm that uses unlabeled data along with a few labeled examples to boost the performance of a classifier. We experiment with co-training on the email domain. Our results show that the performance of co-training depends on the learning algorithm it uses. In particular, Support Vector Machines significantly outperforms N ...

7 A machine learning approach for the curation of biomedical literature: KDD Cup 2002

(task 1)

S. Sathiya Keerthi, Chong Jin Ong, Keng Boon Siah, David B. L. Lim, Wei Chu, Min Shi, David S. Edwin, Rakesh Menon, Lixiang Shen, Jonathan Y. K. Lim, Han Tong Loh  
 December 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 2

Full text available:  [pdf\(281.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper, we present an automated text classification system for the classification of biomedical papers. This classification is based on whether there is experimental evidence for the expression of molecular gene products for specified genes within a given paper. The system performs pre-processing and data cleaning, followed by feature extraction from the raw text. It subsequently classifies the paper using the extracted features with a Naïve Bayes Classifier. Our approach has made it ...

**Keywords:** Naïve Bayes Classifier, ROC curve, paper curation, pre-processing, text mining

8 Short Papers: Classifying and assessing tremor movements for applications in man-machine intelligent user interfaces

Dan Marius Dobrea, Horia Nicolai Teodorescu

January 2004 **Proceedings of the 9th international conference on Intelligent user interface**

Full text available:  [pdf\(355.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


We introduce a new intelligent user interface (IUI) and, also, a new methodology to identify the fatigue state for healthy subjects. The fatigue state is determined by means of a new type of input IUI, named Virtual Joystick. The main goal is to prove the ability of the new IUI system to identify the user's state. We describe the method used in data collecting, the method used to highlight the existence of different physiological and psychic fatigue states reflected by the tremor signal, the cla ...

**Keywords:** multimodal interface, state recognition, support vector machine, virtual reality

9 Industrial/government track: Frequent-subsequence-based prediction of outer membrane proteins

Rong She, Fei Chen, Ke Wang, Martin Ester, Jennifer L. Gardy, Fiona S. L. Brinkman

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available:  [pdf\(166.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A number of medically important disease-causing bacteria (collectively called Gram-negative bacteria) are noted for the extra "outer" membrane that surrounds their cell. Proteins resident in this membrane (outer membrane proteins, or OMPs) are of primary research interest for antibiotic and vaccine drug design as they are on the surface of the bacteria and so are the most accessible targets to develop new drugs against. With the development of genome sequencing technology and bioinformatics, bio ...

**Keywords:** association rule, classification, outer membrane protein, subcellular localization, support vector machine

10 Research track: Mining concept-drifting data streams using ensemble classifiers

Haixun Wang, Wei Fan, Philip S. Yu, Jiawei Han

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available:  [pdf\(234.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

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Recently, mining data streams with concept drifts for actionable insights has become an important and challenging task for a wide range of applications including credit card fraud protection, target marketing, network intrusion detection, etc. Conventional knowledge discovery tools are facing two challenges, the overwhelming volume of the streaming data, and the concept drifts. In this paper, we propose a general framework for mining concept-drifting data streams using weighted ensemble classifi ...

**Keywords:** classifier, classifier ensemble, concept drift, data streams

# 11 Intrusion and privacy: Exploiting unlabeled data in ensemble methods

Kristin P. Bennett, Ayhan Demiriz, Richard Maclin

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available:  [pdf\(719.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


An adaptive semi-supervised ensemble method, ASSEMBLE, is proposed that constructs classification ensembles based on both labeled and unlabeled data. ASSEMBLE alternates between assigning "pseudo-classes" to the unlabeled data using the existing ensemble and constructing the next base classifier using both the labeled and pseudolabeled data. Mathematically, this intuitive algorithm corresponds to maximizing the classification margin in hypothesis space as measured on both the labeled and unlabeled ...

**Keywords:** boosting, classification, ensemble learning, semi-supervised learning

# 12 Learning methods: Interactive deduplication using active learning

Sunita Sarawagi, Anuradha Bhamidipaty

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**


Full text available:  [pdf\(1.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Deduplication is a key operation in integrating data from multiple sources. The main challenge in this task is designing a function that can resolve when a pair of records refer to the same entity in spite of various data inconsistencies. Most existing systems use hand-coded functions. One way to overcome the tedium of hand-coding is to train a classifier to distinguish between duplicates and non-duplicates. The success of this method critically hinges on being able to provide a *covering and* ...

# 13 Magical thinking in data mining: lessons from CoIL challenge 2000

Charles Elkan

August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available:  [pdf\(602.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

CoIL challenge 2000 was a supervised learning contest that attracted 43 entries. The authors of 29 entries later wrote explanations of their work. This paper discusses these reports and reaches three main conclusions. First, naive Bayesian classifiers remain competitive in practice: they were used by both the winning entry and the next best entry. Second, identifying feature interactions correctly is important for maximizing predictive accuracy: this was the difference between the winning classifi ...

# 14 Predictive modeling in automotive direct marketing: tools, experiences and open issues

Wendy Gersten, Rüdiger Wirth, Dirk Arndt

August 2000 **Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining**


Full text available:  pdf(334.76 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** CRISP-DM, Clementine, data mining process, direct marketing, evaluation measures

15 The Click modular router 

Robert Morris, Eddie Kohler, John Jannotti, M. Frans Kaashoek

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles**, Volume 33 Issue 5


Full text available:  pdf(1.46 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Click is a new software architecture for building flexible and configurable routers. A Click router is assembled from packet processing modules called *elements*. Individual elements implement simple router functions like packet classification, queueing, scheduling, and interfacing with network devices. Complete configurations are built by connecting elements into a graph; packets flow along the graph's edges. Several features make individual elements more powerful and complex configuration ...

16 A simulation study of IP switching 

Steven Lin, Nick McKeown

October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 27 Issue 4


Full text available:  pdf(1.47 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recently there has been much interest in combining the speed of layer-2 switching with the features of layer-3 routing. This has been prompted by numerous proposals, including: IP Switching [1], Tag Switching [2], ARIS [3], CSR [4], and IP over ATM [5]. In this paper, we study IP Switching and evaluate the performance claims made by Newman et al in [1] and [6]. In particular, using ten network traces, we study how well IP Switching performs with traffic found in campus, corporate, and Internet S ...

17 Industrial and practical experience track paper session 2: The infocious web search engine: improving web searching through linguistic analysis 

Alexandros Ntoulas, Gerald Chao, Junghoo Cho

May 2005 **Special interest tracks and posters of the 14th international conference on World Wide Web**

Full text available:  pdf(227.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we present the Infocious Web search engine [23]. Our goal in creating Infocious is to improve the way people find information on the Web by resolving ambiguities present in natural language text. This is achieved by performing linguistic analysis on the content of the Web pages we index, which is a departure from existing Web search engines that return results mainly based on keyword matching. This additional step of linguistic processing gives Infocious two main advantages. First, ...

**Keywords:** concept extraction, crawling, indexing, information retrieval, language analysis, linguistic analysis of web text, natural language processing, part-of-speech tagging, phrase identification, web search engine, web searching, word sense disambiguation

**18 Long papers: personal assistants: Intelligent data entry assistant for XML using ensemble learning**

Danico Lee, Costas Tsatsoulis

January 2005 **Proceedings of the 10th international conference on Intelligent user interfaces**Full text available: pdf(183.76 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML has emerged as the primary standard of data representation and data exchange [13]. Although many software tools exist to assist the XML implementation process, data must be manually entered into the XML documents. Current form filling technologies are mostly for simple data entry and do not provide support for the complexity and nested structures of XML grammars. This paper presents SmartXAutofill, an intelligent data entry assistant for predicting and automating inputs for XML documents bas ...

**Keywords:** XML, autofill, ensemble learning, machine learning**19 Technical session 15: WWW image retrieval: A bootstrapping framework for annotating and retrieving WWW images**

Huamin Feng, Rui Shi, Tat-Seng Chua

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**Full text available: pdf(243.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Most current image retrieval systems and commercial search engines use mainly text annotations to index and retrieve WWW images. This research explores the use of machine learning approaches to automatically annotate WWW images based on a predefined list of concepts by fusing evidences from image contents and their associated HTML text. One major practical limitation of employing supervised machine learning approaches is that for effective learning, a large set of labeled training samples is ...

**Keywords:** WWW images, bootstrapping, co-training, image annotation**20 Learning Ensembles from Bites: A Scalable and Accurate Approach**

Nitesh V. Chawla, Lawrence O. Hall, Kevin W. Bowyer, W. Philip Kegelmeyer

December 2004 **The Journal of Machine Learning Research**, Volume 5Full text available: pdf(3.34 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bagging and boosting are two popular ensemble methods that typically achieve better accuracy than a single classifier. These techniques have limitations on massive data sets, because the size of the data set can be a bottleneck. Voting many classifiers built on small subsets of data ("pasting small votes") is a promising approach for learning from massive data sets, one that can utilize the power of boosting and bagging. We propose a framework for building hundreds or thousands of such classifie ...

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# 1 [On the intrinsic complexity of language identification](#)

Sanjay Jain, Arun Sharma

 July 1994 **Proceedings of the seventh annual conference on Computational learning theory**

 Full text available: [pdf\(938.98 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A new investigation of the complexity of language identification is undertaken using the notion of reduction from recursion theory and complexity theory. The approach, referred to as the intrinsic complexity of language identification, employs notions of "weak" and "strong" reduction between learnable classes of languages. The intrinsic complexity of several classes are considered and the results agree with the intuitive difficulty of learning these classes. Several ...



# 2 [Scheduling for power reduction in a real-time system](#)

 Jason J. Brown, Danny Z. Chen, Garrison W. Greenwood, Xiaobo Hu, Richard W. Taylor  
 August 1997 **Proceedings of the 1997 international symposium on Low power electronics and design**

 Full text available: [pdf\(583.61 KB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#)


# 3 [Data base or data maze? An exploration of entry points](#)

Susan Brewer

 January 1968 **Proceedings of the 1968 23rd ACM national conference**

 Full text available: [pdf\(468.10 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

What is a data base? An answer to this question could go something like this: "a collection of data, organized in some fashion, which is both the source and the repository of its creators' knowledge of a given topic". A library can be a data base; so can a filing cabinet, or a general ledger. However, the current discussion deals primarily with computerized data bases, consisting of individually accessible elements stored on random access storage devices. Within a dat ...



# 4 [Data abstraction in SESPOOL](#)


Glen E. Newton, J. Denbigh Starkey

 January 1977 **Proceedings of the 1977 annual conference**

Full text available:

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 [pdf\(309.73 KB\)](#)[full citation](#), [abstract](#), [references](#), [index terms](#)

SESPPOOL is a Simple Extensible Systems PRogramming Oriented Language whose design goals include easy compilation and an efficient runtime environment. SESPOOL's data definition facilities permit programmers to easily define new data types and operations on them which are appropriate for operating systems and language translators in ...

**Keywords:** Abstract data types, Extensibility, Generic procedures, SESPOOL

5 [Degrees of translatability and canonical forms in program schemas: Part I](#) 

Ashok K. Chandra

April 1974 **Proceedings of the sixth annual ACM symposium on Theory of computing**

Full text available:  [pdf\(780.27 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We define a measure of the generality of the control structure of a program schema. This imposes a partial ordering on program schemas, and leads to a concept of the "difficulty" of a programming problem. In this sense there exists a "hardest" flowchart program, recursive program etc. Some earlier proofs can also be simplified and/or clarified by this approach.

6 [Computer-aided analysis and design of information systems](#) 

J. F. Nunamaker, Benn R. Konsynski, Thomas Ho, Carl Allen Singer

December 1976 **Communications of the ACM**, Volume 19 Issue 12

Full text available:  [pdf\(1.38 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper describes the use of computer-aided analysis for the design and development of an integrated financial management system by the Navy Material Command Support Activity (NMCSA). Computer-aided analysis consists of a set of procedures and computer programs specifically designed to aid in the process of applications software design, computer selection and performance evaluation. There are four major components: Problem Statement Language, Problem Statement Analyzer, Generator of Alte ...

**Keywords:** accurately defined systems, computer-aided analysis, information systems, logical system design, physical system design, problem statement analyzer, problem statement language, systems optimization and design algorithm

7 [An approach to multidimensional data array processing by computer](#) 

Mervin E. Muller

February 1977 **Communications of the ACM**, Volume 20 Issue 2

Full text available:  [pdf\(1.80 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Some recent work on the development of general-purpose computer-based statistical and data processing capabilities for handling multidimensional arrays of data is presented. Attention is first given to some of the general problems of multidimensional table and array processing. This is followed by a summary of some recent developments in array processing capabilities at the World Bank, in particular, the system identified as WRAPS (World Bank Retrieval and Array Processing System).

**Keywords:** array processing, computing techniques, cross tabulation, data processing, data retrieval, statistical analysis, syntax for data structures, table processing, time series


8 [PL/I list processing](#) 

Harold W. Lawson

June 1967

**Communications of the ACM**, Volume 10 Issue 6Full text available:  [pdf\(1.18 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**9** [Knowledge-based programs](#) 

Ronald Fagin, Yoram Moses, Joseph Y. Halpern, Moshe Y. Vardi

August 1995 **Proceedings of the fourteenth annual ACM symposium on Principles of distributed computing**Full text available:  [pdf\(1.27 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**10** [LogP: towards a realistic model of parallel computation](#) 

David Culler, Richard Karp, David Patterson, Abhijit Sahay, Klaus Erik Schauser, Eunice Santos, Ramesh Subramonian, Thorsten von Eicken

July 1993 **ACM SIGPLAN Notices , Proceedings of the fourth ACM SIGPLAN symposium on Principles and practice of parallel programming**, Volume 28 Issue 7Full text available:  [pdf\(1.51 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A vast body of theoretical research has focused either on overly simplistic models of parallel computation, notably the PRAM, or overly specific models that have few representatives in the real world. Both kinds of models encourage exploitation of formal loopholes, rather than rewarding development of techniques that yield performance across a range of current and future parallel machines. This paper offers a new parallel machine model, called LogP, that reflects the critical technology tree ...

**Keywords:** PRAM, complexity analysis, massively parallel processors, parallel algorithms, parallel models

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David Culler, Richard Karp, David Patterson, Abhijit Sahay, Klaus Erik Schauser, Eunice Santos, Ramesh Subramonian, Thorsten von Eicken

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June 1967 **Communications of the ACM**, Volume 10 Issue 6

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**Location: EIC 2100**  
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7/5/1 (Item 1 from file: 8)  
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04280263 E.I. No: EIP95112911994

Title: Method for fuzzy rules extraction directly from numerical data and its application to pattern classification

Author: Abe, Shigeo; Lan, Ming-Shong

Corporate Source: Hitachi, Ltd, Ibaraki, Jpn

Source: IEEE Transactions on Fuzzy Systems v 3 n 1 Feb 1995. p 18-28

Publication Year: 1995

CODEN: IEFSEV ISSN: 1063-6706

Language: English

Document Type: JA; (Journal Article) Treatment: A; (Applications); T; (Theoretical)

Journal Announcement: 9512W5

Abstract: In this paper, we discuss a new method for extracting fuzzy rules directly from numerical input-output data for pattern classification. Fuzzy rules with variable fuzzy regions are defined by activation hyperboxes which show the existence region of data for a class and inhibition hyperboxes which inhibit the existence of data for that class. These rules are extracted from numerical data by recursively resolving overlaps between two classes. Then, optimal input variables for the rules are determined using the number of extracted rules as a criterion. The method is compared with neural networks using the Fisher iris data and a license plate recognition system for various examples. (Author abstract) 11 Refs.

Descriptors: \*Fuzzy sets; Pattern recognition; Neural networks; Recursive functions; Knowledge acquisition; Inference engines

Identifiers: Fuzzy rules extraction; Pattern classification; Numerical data; Fisher iris data; License plate recognition system

Classification Codes:

723.4.1 (Expert Systems)

921.4 (Combinatorial Mathematics, Includes Graph Theory, Set Theory);

723.5 (Computer Applications); 723.4 (Artificial Intelligence); 721.1

(Computer Theory, Includes Formal Logic, Automata Theory, Switching Theory, Programming Theory)

921 (Applied Mathematics); 723 (Computer Software); 721 (Computer Circuits & Logic Elements)

92 (ENGINEERING MATHEMATICS); 72 (COMPUTERS & DATA PROCESSING)

7/5/2 (Item 2 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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04264939 E.I. No: EIP95102884231

Title: Rule-based machine learning of spatial data concepts

Author: Stearns, Steve; St. Clair, Daniel C.

Corporate Source: Southwestern Bell Telephone Co

Conference Title: Proceedings of the 1995 ACM Symposium on Applied Computing

Conference Location: Nashville, TN, USA Conference Date: 19950226-19950228

E.I. Conference No.: 43729

Source: Proceedings of the ACM Symposium on Applied Computing 1995. ACM, New York, NY, USA. p 242-247

Publication Year: 1995

CODEN: 002168

Language: English

Document Type: CA; (Conference Article) Treatment: T; (Theoretical)

Journal Announcement: 9512W1

Abstract: Extensive work has been done on interfacing expert systems with spatial systems such as CAD (computer aided drafting) or GIS (geographic information systems). Likewise, much work has been done on the use of

machine learning algorithms to mechanically build the rules which are input into expert systems. This paper explores one particular combination of these areas of research. The rule-based learning algorithm AQ15 was used to classify spatial data from a GIS. A variety of miscellaneous annotation features were **classified** and **input** into AQ15 as training data. In order to **produce** **rules** which would allow an expert system to reclassify the annotations, AQ15 would need to learn spatial concepts such as '?parallel' or '?close-to.' The resulting knowledge base was used to validate existing geographic data. (Author abstract) 8 Refs.

Descriptors: \*Expert systems; Learning systems; Learning algorithms; Classification (of information); Data handling; Geographic information systems; Data structures

Identifiers: Rule based learning algorithm AQ15; Spatial data concepts

Classification Codes:

723.4.1 (Expert Systems)

723.4 (Artificial Intelligence); 903.1 (Information Sources & Analysis)

; 723.2 (Data Processing); 903.3 (Information Retrieval & Use)

723 (Computer Software); 903 (Information Science)

72 (COMPUTERS & DATA PROCESSING); 90 (GENERAL ENGINEERING)

7/5/3 (Item 3 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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04105581 E.I. No: EIP95032617360

Title: Handwritten numeral recognition using self-organizing maps and fuzzy rules

Author: Chi, Zheru; Wu, Jing; Yan, Hong

Corporate Source: Univ of Sydney, Aust

Source: Pattern Recognition v 28 n 1 Jan 1995. p 59-66

Publication Year: 1995

CODEN: PTNRA8 ISSN: 0031-3203

Language: English

Document Type: JA; (Journal Article) Treatment: T; (Theoretical)

Journal Announcement: 9505W2

Abstract: Handwritten numeral recognition using combined self-organizing maps (SOMs) and fuzzy rules is presented in this paper. In the learning phase, the SOM algorithm is used to produce prototypes which together with corresponding variances are used to determine fuzzy regions and membership functions. Fuzzy rules are then **generated** by learning from training patterns. In the recognition stage, an **input** pattern is **classified** by a fuzzy rule based classifier. An unsure pattern is then re-classified by an SOM classifier. Experiments on a database of 20,852 handwritten numerals (10,426 used for training and a further 10,426 for testing) show that this combination technique achieves satisfactory results in terms of classification accuracy and time, and computer memory required. (Author abstract) 14 Refs.

Descriptors: \*Character recognition; Neural networks; Fuzzy sets; Algorithms; Learning systems; Membership functions; Database systems; Data storage equipment

Identifiers: Handwritten numeral recognition; Self organizing maps; Fuzzy rules; Classification

Classification Codes:

723.5 (Computer Applications); 723.4 (Artificial Intelligence); 921.4

(Combinatorial Mathematics, Includes Graph Theory, Set Theory); 921.6

(Numerical Methods); 723.3 (Database Systems); 722.2 (Computer Peripheral Equipment)

723 (Computer Software); 921 (Applied Mathematics); 722 (Computer Hardware)

72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

7/5/4 (Item 4 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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04095027 E.I. No: EIP95022592905

**Title: Neural-network-based fuzzy classifier**

Author: Uebele, Volkmar; Abe, Shigeo; Lan, Ming-Shong

Corporate Source: Hitachi Ltd, Ibaraki-ken, Jpn

Source: IEEE Transactions on Systems, Man and Cybernetics v 25 n 2 Feb 1995. p 353-361

Publication Year: 1995

CODEN: ISYMAW ISSN: 0018-9472

Language: English

Document Type: JA; (Journal Article) Treatment: T; (Theoretical)

Journal Announcement: 9505W1

**Abstract:** In this paper, a new technique for generating fuzzy rules for pattern classification is discussed. First, separation hyperplanes for classes are extracted from a trained neural network. Then, for each class, convex existence regions in the input space are approximated by shifting these hyperplanes in parallel using the training data set for the classes. Using fuzzy rules defined for each class, input data are directly classified without the use of the neural network. This method is applied to a number recognition system as well as to a blood cell classification system. Classifying performance is compared with that obtained with neural networks. (Author abstract) 12 Refs.

**Descriptors:** \*Fuzzy sets; Neural networks; Pattern recognition; Feature extraction; Approximation theory; Learning systems; Pattern recognition systems; Performance; Knowledge acquisition; Algorithms

**Identifiers:** Fuzzy classifiers; Fuzzy rules; Training data sets; Number recognition systems; Blood cell classification systems; Classification performance

**Classification Codes:**

921.4 (Combinatorial Mathematics, Includes Graph Theory, Set Theory);

723.5 (Computer Applications); 921.6 (Numerical Methods); 723.4

(Artificial Intelligence); 723.1 (Computer Programming)

921 (Applied Mathematics); 723 (Computer Software)

92 (ENGINEERING MATHEMATICS); 72 (COMPUTERS & DATA PROCESSING)

7/5/5 (Item 5 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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04064287 E.I. No: EIP95022564972

**Title: Fuzzy rules extraction directly from numerical data for function approximation**

Author: Abe, Shigeo; Lan, Ming-Shong

Corporate Source: Hitachi, Ltd, Hitachi, Jpn

Source: IEEE Transactions on Systems, Man and Cybernetics v 25 n 1 Jan 1995. p 119-129

Publication Year: 1995

CODEN: ISYMAW ISSN: 0018-9472

Language: English

Document Type: JA; (Journal Article) Treatment: A; (Applications); T; (Theoretical)

Journal Announcement: 9504W3

**Abstract:** In our previous work we developed a method for extracting fuzzy rules directly from numerical input-output data for pattern classification. In this paper we extend the method to function approximation. For function approximation, first, the universe of discourse of an output variable is divided into multiple intervals, and each interval is treated as a class. Then the same as for pattern classification, using the input data for each interval, fuzzy rules are recursively defined by activation hyperboxes which show the existence region of the data for the interval and inhibition hyperboxes which inhibit the existence region of data for that interval. The approximation accuracy of the fuzzy system

derived by this method is empirically studied using an operation learning application of a water purification plant. Additionally, we compare the approximation performance of the fuzzy system with the function approximation approach based on neural networks. (Author abstract) 8 Refs.

Descriptors: \*Approximation theory; Fuzzy sets; Input output programs; Pattern recognition; Classification (of information); Data processing; Learning systems; Neural networks

Identifiers: Fuzzy rules; Numerical data; Function approximation; Pattern classification; Variable fuzzy regions; Activation hyperbox

Classification Codes:

921.6 (Numerical Methods); 723.1 (Computer Programming); 723.2 (Data Processing); 723.4 (Artificial Intelligence)

921 (Applied Mathematics); 723 (Computer Software)

92 (ENGINEERING MATHEMATICS); 72 (COMPUTERS & DATA PROCESSING)

7/5/6 (Item 6 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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03907690 E.I. No: EIP94061318967

Title: **Function approximator using fuzzy rules extracted directly from numerical data**

Author: Abe, Shigeo; Lan, Ming-Shong

Corporate Source: Hitachi, Ltd, Ibaraki, Jpn

Conference Title: Proceedings of 1993 International Joint Conference on Neural Networks . Part 2 (of 3)

Conference Location: Nagoya, Jpn Conference Date: 19931025-19931029

Sponsor: ENNS; INNS; IEEE; SICE; IEICE; Japan Neural Network Society

E.I. Conference No.: 20273

Source: Proceedings of the International Joint Conference on Neural Networks v 2 1993. Publ by IEEE, IEEE Service Center, Piscataway, NJ, USA. p 1887-1892

Publication Year: 1993

CODEN: 85OFAE ISBN: 0-7803-1421-2

Language: English

Document Type: CA; (Conference Article) Treatment: T; (Theoretical); A; (Applications)

Journal Announcement: 9409W3

Abstract: In our previous work we **developed** a method for extracting **fuzzy rules** directly from numerical input- output data for pattern **classification** . In this paper we extend the method to function approximation. For function approximation, first, the universe of discourse of an output variable is divided into multiple intervals, and each interval is treated as a class. Then the same as for pattern classification, using the input data for each interval, fuzzy rules are recursively defined by activation hyperboxes which show the existence region of the data for the interval and inhibition hyperboxes which inhibit the existence region of data for that interval. The approximation accuracy of the fuzzy system derived by this method empirically studied using an operation learning application of a water purification plant. Additionally, we compare the approximation performance of the fuzzy system with the function approximation approach based on neural networks. (Author abstract) 8 Refs.

Descriptors: \*Pattern recognition; Neural networks; Approximation theory; Fuzzy sets

Identifiers: Fuzzy rules; Function approximators

Classification Codes:

723.4 (Artificial Intelligence); 741.1 (Light/Optics); 723.1 (Computer Programming); 921.6 (Numerical Methods)

723 (Computer Software); 741 (Optics & Optical Devices); 921 (Applied Mathematics)

72 (COMPUTERS & DATA PROCESSING); 74 (OPTICAL TECHNOLOGY); 92 (ENGINEERING MATHEMATICS)

7/5/7 (Item 7 from file: 8)  
DIALOG(R) File 8: Ei Compendex(R)  
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03829612 E.I. No: EIP94041253305

**Title:** Extracting fuzzy rules from pattern classification neural networks  
**Author:** Uebele, Volkmar; Abe, Shigeo; Lan, Ming-Shong  
**Corporate Source:** Hitachi, Ltd, Ibaraki-ken, Jpn  
**Conference Title:** Proceedings of the IEEE International Conference on Systems, Man and Cybernetics. Part 2 (of 5)  
**Conference Location:** Le Touquet, Fr **Conference Date:** 19931017-19931020  
**E.I. Conference No.:** 20056  
**Source:** Proceedings of the IEEE International Conference on Systems, Man and Cybernetics v 2 1993. Publ by IEEE, IEEE Service Center, Piscataway, NJ, USA, 93CH3242-5. p 578-583  
**Publication Year:** 1993  
**CODEN:** PICYE3 **ISSN:** 0884-3627 **ISBN:** 0-7803-0911-1  
**Language:** English  
**Document Type:** CA; (Conference Article) **Treatment:** A; (Applications); T; (Theoretical)  
**Journal Announcement:** 9405W2

**Abstract:** In this paper, a new technique for generating fuzzy rules for pattern classification is discussed. First, separation hyperplanes for classes are extracted from a trained neural network. Then, for each class, convex existence regions in the input space are approximated by shifting these hyperplanes in parallel using the training data set for the classes. Using fuzzy rules defined for each class, input data are directly classified without use of the neural network. This method is applied to a number recognition system as well as to a blood cell classification system; and their performance is compared with that gotten with neural networks. (Author abstract) 12 Refs.

**Descriptors:** \*Fuzzy sets; Neural networks; Pattern recognition; Classification (of information); Data acquisition; Approximation theory; Decision theory; Systems analysis

**Identifiers:** Separation hyperplanes; Pattern classification neural networks; Number recognition system; Blood cell classification

**Classification Codes:**

921.4 (Combinatorial Mathematics, Includes Graph Theory, Set Theory);  
723.4 (Artificial Intelligence); 723.2 (Data Processing); 903.1  
(Information Sources & Analysis); 921.6 (Numerical Methods)  
921 (Applied Mathematics); 723 (Computer Software); 903 (Information Science)  
92 (ENGINEERING MATHEMATICS); 72 (COMPUTERS & DATA PROCESSING); 90  
(GENERAL ENGINEERING)

7/5/8 (Item 8 from file: 8)  
DIALOG(R) File 8: Ei Compendex(R)  
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03473975 E.I. Monthly No: EIM9208-043298

**Title:** An experiment in machine learning of redundant knowledge.  
**Author:** Kononenko, Igor  
**Corporate Source:** Fac of Electr & Comput Eng, Univ of Ljubljana, Yugoslavia  
**Conference Title:** Proceedings of the 6th Mediterranean Electrotechnical Conference - Melecon '91  
**Conference Location:** Ljubljana, Slovenia, Yugosll **Conference Date:** 19910522  
**Sponsor:** IEEE Region 8  
**E.I. Conference No.:** 16880  
**Source:** Melecon. Publ by IEEE, IEEE Service Center, Piscataway, NJ, USA (IEEE cat n 91CH2964-5). p 1146-1149  
**Publication Year:** 1991  
**ISBN:** 0-87942-655-1

Language: English  
Document Type: PA; (Conference Paper) Treatment: T; (Theoretical); A;  
(Applications)

Journal Announcement: 9208

Abstract: Experiments in generating redundant diagnostic rules from examples in three medical domains are described. The idea is to generate a number of sets of decision **rules** (theories) using known **inductive** learning techniques. Each set is applied when classifying new **objects**. An object is **classified** to the class that is preferred by the majority of theories. The redundant knowledge with voting principle significantly outperformed the one theory principle. In addition, redundant knowledge generated in this way provides the possibility of better explanations, which is one of weak points of the inductively generated (nonredundant) sets of decision rules. 19 Refs.

Descriptors: \*EXPERT SYSTEMS--\*Knowledge Bases; DECISION THEORY AND ANALYSIS; REDUNDANCY; LEARNING SYSTEMS; DATA PROCESSING--Medical Information

Identifiers: REDUNDANT KNOWLEDGE; MACHINE LEARNING

Classification Codes:

723 (Computer Software); 731 (Automatic Control Principles); 922 (Statistical Methods); 461 (Biotechnology)

72 (COMPUTERS & DATA PROCESSING); 73 (CONTROL ENGINEERING); 92 (ENGINEERING MATHEMATICS); 46 (BIOENGINEERING)

7/5/9 (Item 9 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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03095601 E.I. Monthly No: EIM9107-035140

Title: Use of embedded optical fiber sensors for acoustic emission detection within composite materials.

Author: Maslouhi, A.; Proulx, D.; Roy, C.; Liu, K.; McEwen, K.; Measures, R. M.; Zimcik, D. G.

Corporate Source: Univ de Sherbrooke, Sherbrooke, QUE, Can

Conference Title: 36th International SAMPE Symposium and Exhibition

Conference Location: San Diego, CA, USA Conference Date: 19910415

Sponsor: SAMPE, Sacramento Chapter

E.I. Conference No.: 14756

Source: International SAMPE Symposium and Exhibition v 36 pt 1. Publ by SAMPE, Covina, CA, USA. p 259-271

Publication Year: 1991

CODEN: ISSEEG ISSN: 0891-0138

Language: English

Document Type: PA; (Conference Paper) Treatment: X; (Experimental)

Journal Announcement: 9107

Abstract: This paper describes the use of miniature fiber optic sensors, embedded within a carbon-epoxy composite material specimen, to measure acoustic emissions emanating from within the material. The response to the acoustic signal is transmitted from the sensor through the optical fibers which can be integrated directly into the material during fabrication. The measured signals are analyzed to extract detailed information on frequency content, amplitude, and other characteristics which are then used to classify the **data** according to damage type. **Classified data** is then used to **establish rules** on which automated pattern recognition algorithms can operate for subsequently sensed acoustic emissions. Using this technique results are presented and compared for both a standard broadband piezoelectric sensor and fiber optic Michelson interferometric sensor. (Author abstract) 17 Refs.

Descriptors: \*COMPOSITE MATERIALS--\*Acoustic Emissions; ACOUSTIC EMISSION TESTING; SENSORS; OPTICAL FIBERS; EPOXY RESINS; PATTERN RECOGNITION

Identifiers: FIBER OPTIC SENSORS; PIEZOELECTRIC SENSOR; FIBER OPTIC MICHELSON INTERFEROMETRIC SENSOR; FUSTCLUSTER PROCEDURE

Classification Codes:

817 (Plastics, Products & Applications); 421 (Materials Properties);

422 (Materials Testing); 741 (Optics & Optical Devices); 723 (Computer Software)  
81 (CHEMICAL PROCESS INDUSTRIES); 42 (MATERIALS PROPERTIES & TESTING);  
74 (OPTICAL TECHNOLOGY); 72 (COMPUTERS & DATA PROCESSING)

7/5/10 (Item 10 from file: 8)  
DIALOG(R)File 8:EI Compendex(R)  
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03094997 E.I. Monthly No: EIM9107-034536  
**Title: Table recognition for automated document entry system.**  
Author: Kojima, Haruhiko; Akiyama, Teruo  
Corporate Source: NTT Human Interface Lab, Kanagawa, Jpn  
Conference Title: High-Speed Inspection Architectures, Barcoding, and Character Recognition  
Conference Location: Boston, MA, USA Conference Date: 19901105  
Sponsor: SPIE  
E.I. Conference No.: 14631  
Source: Proceedings of SPIE - The International Society for Optical Engineering v 1384. Publ by Int Soc for Optical Engineering, Bellingham, WA, USA. p 285-292  
Publication Year: 1991  
CODEN: PSISDG ISSN: 0277-786X  
Language: English  
Document Type: PA; (Conference Paper) Treatment: A; (Applications); X; (Experimental)  
Journal Announcement: 9107  
Abstract: Most documents include various layout objects, such as headlines, text lines, charts and tables. In particular, tables are powerful tools that allow large quantities of data to be easily understood. An automated document entry system is needed that can recognize the document layout objects and extract the information from tables. In this paper, an effective table recognition method is described. The proposed method is composed of three steps: (1) document layout structure recognition, (2) table layout structure recognition, (3) table content recognition. To develop the table layout structure recognition step, we first examined the layout structure of tables in existing **documents** and **classified** several common structures. As a result of the examination, we **created** ten **rules** and designed a **ruled** line and box extraction algorithm based on these rules. The effectiveness of the proposed method has been confirmed in experiments. Accordingly, the proposed method will greatly contribute to the creation of an automated document entry system to allow faster document recognition and permit the data in tables to be extracted. (Author abstract)  
Descriptors: \*DATA PROCESSING--\*Data Acquisition; COMPUTER SYSTEMS PROGRAMMING--Input Output Programs  
Identifiers: TABLE RECOGNITION METHODS; AUTOMATED DOCUMENT ENTRY SYSTEMS; DOCUMENT LAYOUT OBJECTS  
Classification Codes:  
723 (Computer Software)  
72 (COMPUTERS & DATA PROCESSING)

7/5/11 (Item 11 from file: 8)  
DIALOG(R)File 8:EI Compendex(R)  
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03016315 E.I. Monthly No: EI9102018168  
**Title: Improvement of the backpropagation algorithm for training neural networks.**  
Author: Leonard, J.; Kramer, M. A.  
Corporate Source: Massachusetts Inst of Technology, Cambridge, MA, USA  
Source: Computers & Chemical Engineering v 14 n 3 Mar 1990 p 337-341  
Publication Year: 1990

CODEN: CCENDW ISSN: 0098-1354  
Language: English  
Document Type: JA; (Journal Article) Treatment: A; (Applications); T;  
(Theoretical)

Journal Announcement: 9102

Abstract: The application of artificial neural networks (ANNs) to chemical engineering problems, notably malfunction diagnosis, has recently been discussed. ANNs 'learn', from examples, a certain set of input-output mappings by optimizing weights on the branches that link the nodes of the ANN. Once the structure of the input-output space is learned, novel **input** patterns can be **classified**. The backpropagation (BP) algorithm using the generalized delta **rule** (GDR) for gradient **calculation** has been popularized as a method of training ANNs. This method has the advantage of being readily adaptable to highly parallel hardware architectures. However, most current studies of ANNs are conducted primarily on serial rather than parallel processing machines. On serial machines, backpropagation is very inefficient and converges poorly. Some simple improvements, however, can render the algorithm much more robust and efficient. (Author abstract) 13 Refs.

Descriptors: \*NEURAL NETWORKS; CHEMICAL ENGINEERING--Computer Applications; ARTIFICIAL INTELLIGENCE; COMPUTER PROGRAMMING--Algorithms

Identifiers: ARTIFICIAL NEURAL NETWORKS; BACKPROPAGATION ALGORITHM IMPROVEMENT; NEURAL NETWORKS TRAINING; MALFUNCTION DIAGNOSIS

Classification Codes:

723 (Computer Software); 805 (Chemical Engineering, General)

72 (COMPUTERS & DATA PROCESSING); 80 (CHEMICAL ENGINEERING)

7/5/12 (Item 12 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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01962126 E.I. Monthly No: EI8604033342 E.I. Yearly No: EI86099552

Title: UTILITY OF THEMATIC MAPPER SENSOR CHARACTERISTICS FOR SURFACE MINE MONITORING.

Author: Irons, James R.; Kennard, Ruth L.

Corporate Source: NASA, Goddard Space Flight Cent, Greenbelt, MD, USA

Source: Photogrammetric Engineering and Remote Sensing v 52 n 3 Mar 1986  
p 389-396

Publication Year: 1986

CODEN: PERSDV ISSN: 0099-1112

Language: ENGLISH

Document Type: JA; (Journal Article) Treatment: A; (Applications); X;  
(Experimental)

Journal Announcement: 8604

Abstract: An investigation was conducted to isolate the effects of three sensor characteristics (spatial resolution, data quantization, and spectral band configuration) on the thematic classification of remote sensing data acquired over an area containing surface coal mines. A fixed effects analysis-of-variance (ANOVA) model and a balanced experimental design were used to evaluate the effect on classification accuracy of refining each characteristic from Landsat Multispectral Scanner (MSS) specifications to Thematic Mapper (TM) specifications. **Data** for each treatment were independently **classified** into six land-cover categories using supervised training and a per-pixel, maximum-likelihood decision **rule**. Classification accuracies were **determined** by comparisons to digitized ground reference data. (Edited author abstract) 13 refs.

Descriptors: \*REMOTE SENSING--\*Multispectral Scanners; COAL MINES AND MINING--Remote Sensing

Identifiers: THEMATIC MAPPER SENSOR CHARACTERISTICS; SURFACE MINE MONITORING; ANALYSIS-OF-VARIANCE (ANOVA) MODEL

Classification Codes:

405 (Construction Equipment & Methods); 742 (Cameras & Photography);  
503 (Mines & Mining, Coal)

40 (CIVIL ENGINEERING); 74 (OPTICAL TECHNOLOGY); 50 (MINING)

ENGINEERING)

7/5/13 (Item 1 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
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01468858 ORDER NO: AADAA-I9608884

**AN INVESTIGATION INTO THE NATURE, ORIGIN AND USE OF INDICATORS FOR  
EVALUATING TRAINING RESULTS IN AN ORGANIZATIONAL SETTING**

Author: MAGENNIS, JO P.

Degree: ED.D.

Year: 1995

Corporate Source/Institution: THE FLORIDA STATE UNIVERSITY (0071)

Major Professor: IRWIN R. JAHNS

Source: VOLUME 56/11-A OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 4248. 478 PAGES

Descriptors: EDUCATION, ADULT AND CONTINUING ; EDUCATION, INDUSTRIAL ;  
EDUCATION, TESTS AND MEASUREMENTS

Descriptor Codes: 0516; 0521; 0288

Business and industry training is a growing area of practice in the field of adult education. Evaluation of the results of training is a challenge for both practitioners and scholars. A qualitative study of the nature, origin and use of indicators for evaluating training results was conducted over a two-year period in a nuclear utility setting. The study's participants were trainers, supervisors, managers, students and staff personnel.

Data collection involved in-depth interviews, participant observations, document reviews, journal writing, and member checking. Field notes were coded and categorized based on themes and patterns. Data analysis involved deriving categories and their properties, defining inclusion rules, constructing memos and models, formulating working hypotheses, and generating substantive theory.

The study posits four models, grounded in practice and integrated with theoretical literature. The first model, a Training Results Framework, provides a classification tool that is organized using three distinct types of results (performance, satisfaction, in-process) and six system levels (training, job, worksite, company, industry, society) relevant to business and industry. A Four-Stage Process Model for Establishing Indicators provides a systematic, ongoing methodology of activities and tasks involved in identifying, prioritizing, selecting and utilizing useful indicators. A Holistic Results-Oriented Training Evaluation System model emphasizes the quality checkpoints for monitoring a system of multiple indicators to determine the value added by training, and to provide feedback for continuous improvement of training quality. A Holistic System View of Planning and Evaluation model emphasizes the linkages among requirements, planning, evaluation and results at the various system levels, and the relationship of feedback to maintaining or modifying requirements for future planning efforts.

The study provides implications for theory showing how the findings support and build on the adult education field's existing knowledge base. The study's findings fill a gap in the literature on evaluation and monitoring of training/HRD in an organizational setting. The study provides practical implications for trainers, managers and industry leaders, and for professors and graduate students in adult education and HRD, and provides recommendations for future research.

7/5/14 (Item 2 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
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01424361 ORDER NO: AADAA-I9523646

**GENERAL METHODS FOR ANALYZING MACHINE LEARNING SAMPLE COMPLEXITY (PAC**

MODEL)

Author: MICHAEL, CHRISTOPH  
Degree: PH.D.  
Year: 1994  
Corporate Source/Institution: THE COLLEGE OF WILLIAM AND MARY IN  
VIRGINIA (0261)  
Adviser: W. ROBERT COLLINS  
Source: VOLUME 56/03-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 1542. 286 PAGES  
Descriptors: COMPUTER SCIENCE; ARTIFICIAL INTELLIGENCE  
Descriptor Codes: 0984; 0800

During the past decade, there has been a resurgence of interest in applying mathematical methods to problems in artificial intelligence. Much work has been done in the field of machine learning, but it is not always clear how the results of this research should be applied to practical problems. Our aim is to help bridge the gap between theory and practice by addressing the question: "If we are given a machine learning algorithm, how should we go about formally analyzing it?" as opposed to the usual question: "how do we write a learning algorithm we can analyze?"

We will consider algorithms that accept randomly drawn training data as input, and produce classification rules as their outputs. For the most part our analyses will be based on the syntactic structure of these classification rules; for example, if we know that the algorithm we want to analyze will only output logical expressions that are conjunctions of variables, we can use this fact to facilitate our analysis.

We use a probabilistic framework for machine learning, often called the pac model. In this framework, one asks whether or not a machine learning algorithm has a high probability of generating classification rules that "usually" make the right classification (pac means probably approximately correct). Research in the pac framework can be divided into two subfields. The first field is concerned with the amount of training data that is needed for successful learning to take place (success being defined in terms of generalization ability); the second field is concerned with the computational complexity of learning once the training data have been selected. Since most existing algorithms use heuristics to deal with the problem of complexity, we are primarily concerned with the amount of training data that algorithms require.

7/5/15 (Item 3 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
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01237208 ORDER NO: AAD92-25624  
**STRATEGIES AND METHODOLOGIES FOR EFFICIENT AND EFFECTIVE DESIGN  
VERIFICATION IN A SIMULATION ENVIRONMENT (DIGITAL SYSTEMS)**

Author: KANG, SUNGHO  
Degree: PH.D.  
Year: 1992  
Corporate Source/Institution: THE UNIVERSITY OF TEXAS AT AUSTIN (0227)  
Supervisor: STEPHEN A. SZYGENDA  
Source: VOLUME 53/04-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 1985. 218 PAGES  
Descriptors: ENGINEERING, ELECTRONICS AND ELECTRICAL  
Descriptor Codes: 0544

In recent years organizational computing has received a great deal of attention from both computer scientists and organizational scientists because of the increasing strategic importance of information technology in an organization's success. Computer systems are expected to play more important roles in supporting the ongoing activities of organizations and therefore, expected to acquire more of the characteristics of organizations. A few examples are (group) decision support systems, executive information systems, computer-supported cooperative work. and

negotiation support systems. This dissertation proposes a database framework for computer-supported interpretation systems (CSIS), based on the model of organizations as loosely-coupled interpretation systems. to support organization's information interpretation process.

We introduce an extensional approach to database management emphasizing flexibility in information acquisition and interpretation. In an extensional database, objects and classes are loosely coupled so that objects can be defined without being a member of a predefined class, the objects in a class need not be homogeneous in their attributes, and **objects** can be **classified** inductively based on expert judgement and experience as well as deductively based on structures and **rules**. We **define** the Extensional Object Model (ExOM) as a formalism for extensional databases. The ExOM incorporates imprecise data description, exemplar-based concept representation, and machine learning with conventional object-oriented models. Both the deductive and inductive approaches are integrated for interpretation. Thus we explore the possibilities of knowledge discovery or inductive learning, as well as the deductive capabilities, in a database framework.

In our view, CSIS will become the base of the next generation organizational information systems with stability and adaptability, providing the capabilities envisioned in organization theories.

7/5/16 (Item 4 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
(c) 2005 ProQuest Info&Learning. All rts. reserv.

01235463 ORDER NO: AAD92-25621  
A FRAMEWORK FOR COMPUTER-SUPPORTED INTERPRETATION SYSTEMS (INTERPRETATION SYSTEMS, DATABASE MANAGEMENT)  
Author: JUNG, CHUL YONG  
Degree: PH.D.  
Year: 1992  
Corporate Source/Institution: THE UNIVERSITY OF TEXAS AT AUSTIN (0227)  
Supervisor: ANDREW B. WHINSTON  
Source: VOLUME 53/04-A OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 1213. 143 PAGES  
Descriptors: BUSINESS ADMINISTRATION, MANAGEMENT; INFORMATION SCIENCE;  
ARTIFICIAL INTELLIGENCE  
Descriptor Codes: 0454; 0723; 0800

In recent years organizational computing has received a great deal of attention from both computer scientists and organizational scientists because of the increasing strategic importance of information technology in an organization's success. Computer systems are expected to play more important roles in supporting the ongoing activities of organizations and therefore, expected to acquire more of the characteristics of organizations. A few examples are (group) decision support systems, executive information systems, computer-supported cooperative work, and negotiation support systems. This dissertation proposes a database framework for computer-supported interpretation systems (CSIS), based on the model of organizations as loosely-coupled interpretation systems, to support organization's information interpretation process.

We introduce an extensional approach to database management emphasizing flexibility in information acquisition and interpretation. In an extensional database, objects and classes are loosely coupled so that objects can be defined without being a member of a predefined class, the objects in a class need not be homogeneous in their attributes, and **objects** can be **classified** inductively based on expert judgement and experience as well as deductively based on structures and **rules**. We **define** the Extensional Object Model (ExOM) as a formalism for extensional databases. The ExOM incorporates imprecise data description, exemplar-based concept representation, and machine learning with conventional object-oriented models. Both the deductive and inductive approaches are integrated for interpretation. Thus we explore the possibilities of

knowledge discovery or inductive learning, as well as the deductive capabilities, in a database framework.

In our view, CSIS will become the base of the next generation organizational information systems with stability and adaptability, providing the capabilities envisioned in organization theories.

7/5/17 (Item 1 from file: 2)  
DIALOG(R) File 2:INSPEC  
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

4932465 INSPEC Abstract Number: C9506-7120-003

**Title: Application of the rough set approach to evaluation of bankruptcy risk**

Author(s): Slowinski, R.; Zopounidis, C.  
Author Affiliation: Inst. of Comput. Sci., Poznan Tech. Univ., Poland  
Journal: International Journal of Intelligent Systems in Accounting, Finance and Management vol.4, no.1 p.27-41  
Publication Date: March 1995 Country of Publication: UK  
CODEN: IJAMEN ISSN: 1055-615X  
U.S. Copyright Clearance Center Code: 1055-615X/95/010027-15  
Language: English Document Type: Journal Paper (JP)  
Treatment: Practical (P)

**Abstract:** We present a new approach to evaluation of bankruptcy risk of firms based on the rough set theory. The concept of a rough set appeared to be an effective tool for the analysis of information systems representing knowledge gained by experience. The financial information system describes a set of objects (firms) by a set of multi-valued attributes (financial ratios and qualitative variables), called condition attributes. The firms are classified into groups of risk subject to an expert's opinion, called decision attribute. A natural problem of knowledge analysis consists then in discovering relationships, in terms of decision rules, between description of firms by condition attributes and particular decisions. The rough set approach enables one to discover minimal subsets of condition attributes ensuring an acceptable quality of classification of the firms analysed and to derive decision rules from the financial information system which can be used to support decisions about financing new firms. Using the rough set approach one analyses only facts hidden in data, it does not need any additional information about data and does not correct inconsistencies manifested in data; instead, rules produced are categorized into certain and possible. A real problem of the evaluation of bankruptcy risk by a Greek industrial development bank is studied using the rough set approach. (46 Refs)

Subfile: C  
Descriptors: bank data processing; business data processing; decision support systems; expert systems; financial data processing; information systems; knowledge representation; risk management; set theory  
Identifiers: rough set approach; bankruptcy risk evaluation; firms; knowledge representation; financial information system; multi-valued attributes; failed condition attributes; expert opinion; decision attribute; knowledge analysis; decision rules; classification; new firms; Greek industrial development bank

Class Codes: C7120 (Financial computing); C1160 (Combinatorial mathematics); C6170K (Knowledge engineering techniques); C7102 (Decision support systems)

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7/5/18 (Item 2 from file: 2)  
DIALOG(R) File 2:INSPEC  
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

4631041 INSPEC Abstract Number: C9405-6170-030

**Title: Learning to play Connect 4: a study in attribute definition for ID3**

Author(s): Baird, B.W.; Hickey, R.J.

Author Affiliation: Dept. of Comput. Sci., Ulster Univ.; Coleraine, UK  
 p.157-65  
 Editor(s): Ryan, K.; Sutcliffe, R.F.E.  
 Publisher: Springer-Verlag, Berlin, Germany  
 Publication Date: 1993 Country of Publication: West Germany ix+356  
 pp.  
 ISBN: 3 540 19799 0  
 Conference Title: Proceedings of Annual Irish Conference on Artificial  
 Intelligence and Cognitive Science '92  
 Conference Sponsor: Digital Equipment Ireland; Hitachi, IBM Ireland; K&M  
 Technol; et al  
 Conference Date: 10-11 Sept. 1992 Conference Location: Limerick,  
 Ireland  
 Language: English Document Type: Conference Paper (PA)  
 Treatment: Theoretical (T)  
 Abstract: The use of algorithms such as ID3 (J. R. Quinlan, 1986) to  
 induce decision trees and rule sets requires that a set of attributes  
 or features be defined with which to describe objects to be classified.  
 This problem is considered in an application to the game of Connect 4 where  
 the task is to learn a set of rules with which a program can play to a  
 reasonable standard. The attributes used evaluate the current position of a  
 game from the point of view of both players and therefore, to a limited  
 extent, implement a defensive as well as an offensive strategy. The  
 attributes characterise moves made by the ultimate winners in a series of  
 games played by novice and moderately good players. (9 Refs)  
 Subfile: C  
 Descriptors: computer games; decision theory; games of skill; learning  
 (artificial intelligence); trees (mathematics)  
 Identifiers: Connect 4; attribute definition; ID3; decision trees; rule  
 sets; current position of game; defensive strategy; offensive strategy;  
 machine learning; games of skill  
 Class Codes: C6170 (Expert systems); C7830D (Computer games); C1140E (Game  
 theory); C1160 (Combinatorial mathematics); C1240 (Adaptive system  
 theory)

7/5/19 (Item 3 from file: 2)  
 DIALOG(R) File 2:INSPEC  
 (c) 2005 Institution of Electrical Engineers. All rts. reserv.

4579791 INSPEC Abstract Number: C9403-7460-001  
 Title: System Diagnostic Builder: a rule generation tool for expert  
 systems that do intelligent data evaluation  
 Author(s): Nieten, J.; Burke, R.  
 Author Affiliation: GHG Corp., Houston, TX, USA  
 Journal: Proceedings of the SPIE - The International Society for Optical  
 Engineering vol.1963 p.31-8  
 Publication Date: 1993 Country of Publication: USA  
 CODEN: PSISDG ISSN: 0277-786X  
 U.S. Copyright Clearance Center Code: 0 8194 1199 X/93/\$4.00  
 Conference Title: Applications of Artificial Intelligence 1993:  
 Knowledge-Based Systems in Aerospace and Industry  
 Conference Sponsor: SPIE  
 Conference Date: 13-15 April 1993 Conference Location: Orlando, FL,  
 USA  
 Language: English Document Type: Conference Paper (PA); Journal Paper  
 (JP)  
 Treatment: Applications (A); Practical (P)  
 Abstract: The System Diagnostic Builder (SDB) is an automated knowledge  
 acquisition tool using state-of-the-art artificial intelligence (AI)  
 technologies. The SDB uses an inductive machine learning technique to  
 generate rules from data sets that are classified by a Subject  
 Matter Expert (SME). Thus, data is captured from the subject system,  
 classified by an expert, and used to drive the rule generation process.  
 These rule-bases are used to represent the observable behavior of the

subject system, and to represent knowledge about this system. The rule-bases can be used in any knowledge based system which monitors or controls a physical system or simulation. NASA Johnson Space Center needed a method of doing automated verification and validation (V&V) of the Shuttle Mission Simulator (SMS). (6 Refs)

Subfile: C

Descriptors: aerospace computing; diagnostic expert systems; knowledge acquisition; real-time systems

Identifiers: System Diagnostic Builder; rule generation tool; expert systems; intelligent data evaluation; knowledge acquisition; inductive machine learning; Subject Matter Expert; NASA Johnson Space Center; automated verification and validation; Shuttle Mission Simulator

Class Codes: C7460 (Aerospace engineering); C6170 (Expert systems); C1230 (Artificial intelligence)

7/5/20 (Item 4 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

4454537 INSPEC Abstract Number: B9309-6140C-117, C9309-1250-107

Title: Fuzzy subimage classification in image sequence coding

Author(s): Kong, S.-G.; Kosko, B.

Author Affiliation: Dept. of Electr. Eng., Univ. of Southern California, Los Angeles, CA, USA

Conference Title: ICASSP-92: 1992 IEEE International Conference on Acoustics, Speech and Signal Processing (Cat. No.92CH3103-9) p.517-20 vol.3

Publisher: IEEE, New York, NY, USA

Publication Date: 1992 Country of Publication: USA 5 vol. 3219 pp.

ISBN: 0 7803 0532 9

U.S. Copyright Clearance Center Code: 0 7803 0532 9/92/\$3.00

Conference Sponsor: IEEE

Conference Date: 23-26 March 1992 Conference Location: San Francisco, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Theoretical (T)

Abstract: Fuzzy systems are used to classify subimages efficiently in adaptive hybrid transform/predictive coding of image sequences. An adaptive fuzzy system estimates fuzzy rules by clustering input-output data generated by the subimage classification method of W.-H. Chen and C.H. Smith (1977). The fuzzy rules define patches in the state space and approximate an unknown function by covering its graph with patches. The fuzzy system classifies subimages into four temporally active subimage classes according to the between-frame prediction error signal. The system encodes active subimages with more bits, and inactive subimages with fewer bits, to compress the image data. Fuzzy classification improved coding performance over nonfuzzy classification and nonadaptive interframe coding. (6 Refs)

Subfile: B C

Descriptors: fuzzy set theory; image coding; image sequences; state-space methods

Identifiers: product-space clustering; subimage classification; image sequence coding; adaptive hybrid transform/predictive coding; adaptive fuzzy system; state space; graph; patches; between-frame prediction error signal; active subimages; inactive subimages; interframe coding

Class Codes: B6140C (Optical information and image processing); B6120B (Codes); B0250 (Combinatorial mathematics); C1250 (Pattern recognition); C1160 (Combinatorial mathematics)

File 347:JAPIO Nov 1976-2005/Feb(Updated 050606)  
(c) 2005 JPO & JAPIO  
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200538  
(c) 2005 Thomson Derwent

Set	Items	Description
S1	6841	(CLASSIFIED OR CATEGORIZED OR CATEGORISED) (5N) (RECORDS OR - DATA OR INFORMATION OR DOCUMENTS OR CONTENT OR ARTICLES OR IN- PUT? ? OR ELEMENTS OR ITEMS OR OBJECTS OR FILES).
S2	1415	OUTPUT? ?(5N) (CLASSIFIER? ? OR CLASSIFY??? OR CLASSIFICATI- ON OR CATEGORIZ? OR CATEGORIS?)
S3	8860	RULE? ?(5N) (GENERAT? OR PRODUC???? OR CONSTRUCT? OR ESTABL- ISH? OR CREAT???? OR FASHION? OR FORM?? OR FORMING OR FORMATI- ON? ? OR DEVELOP? OR BUILT OR BUILD??? OR COMPUTE OR COMPUTES OR COMPUTED OR COMPUTING)
S4	5350	RULE? ?(5N) (DETERMIN????? OR DISCERN? OR DERIV??? OR CALCUL- LA? OR DEFIN??? OR INDUC?????)
S5	87	S1:S2 AND S3:S4
S6	38	S1:S2(15N)S3:S4
S7	11	S6 AND AC=US/PR
S8	1	S7 AND AY=(1976:1997)/PR
S9	12	S6 AND PY=1976:1997
S10	13	S8:S9

10/5/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2005 JPO & JAPIO. All rts. reserv.

05575647 \*\*Image available\*\*  
DEVICE FOR CLASSIFYING ELECTRONIC MAIL

PUB. NO.: 09-190447 [JP 9190447 A]  
PUBLISHED: July 22, 1997 ( 19970722)  
INVENTOR(s): TANAKA MIDORI  
KUDO MASATO  
KOSEKI YOSHIYUKI  
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 08-001880 [JP 961880]  
FILED: January 10, 1996 (19960110)  
  
INTL CLASS: [6] G06F-017/30; H04L-012/54; H04L-012/58  
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications); 44.3  
(COMMUNICATION -- Telegraphy)

#### ABSTRACT

PROBLEM TO BE SOLVED: To easily generate and correct a classification rule by classifying various kinds of and large quantity of electronic mails without requiring special knowledge about a classification rule format concerning the classification of a transmission/reception mail in an electronic main system.

SOLUTION: The classification rule for classifying the transmitted/received mail is stored in a rule storing means 2. When a mail transmitting/receiving means 1 transmits and receives the electronic mail, a mail classifying means 3 decides the classification categories of the respective mails through the use of the classification rule and stores it in a mail storing means 4. A classification result display means 5 displays the mail stored in the mail storing means 4 in an input/ output device 7 by classification category. When a user designates the mail to be changed in classification, a classification rule generating means 6 picks-up the list of information to be the candidate of a classification condition from the contents of the designated mail and presents it to the user. When the user selects the classification condition from the list, the classification rule generating means 6 generates the classification rule.

10/5/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2005 JPO & JAPIO. All rts. reserv.

05565116 \*\*Image available\*\*  
COMPONENT INVENTORY SCHEDULE PLANNING SUPPORT SYSTEM

PUB. NO.: 09-179916 [JP 9179916 A]  
PUBLISHED: July 11, 1997 ( 19970711)  
INVENTOR(s): TAKADA MASAHIRO  
MATOBA HIDEAKI  
TAKAHASHI SHINO  
SEGAWA TETSUJI  
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 07-333764 [JP 95333764]  
FILED: December 21, 1995 (19951221)  
INTL CLASS: [6] G06F-019/00; G06F-017/60  
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications)

#### ABSTRACT

PROBLEM TO BE SOLVED: To plan a component inventory schedule by setting the

volumes of component inventories of a product whose demand varies greatly and a product whose demand is hardly predicted.

SOLUTION: Component information of respective machine kinds and machine kind information are inputted, a component-classified inventory calculation rule determination support means 101 simulates the necessary amounts of components, and a component classification rule defining means 113 determines a component classification rule 108 for classifying the components on the basis of the volumes of inventories of the components for classifying the components. The respective components are classified according to the component classification rule 108 and held as component classification results by a component classifying means 102, a manual adjusting means 103 supports the correction of the classifications of the components, and the correction result is held as the component classification results of the components in the component classifying means 102; and the component-classified inventory volume calculation rule 109 for calculating the volumes of inventories of the respective components is determined by the component classifying means 102 according to the component classification results and a component inventory volume setting means 104 determines the volumes of inventories of the components.

10/5/3 (Item 3 from file: 347)  
DIALOG(R)File 347:JAPIO  
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03558581 \*\*Image available\*\*  
SERIAL RECORDING DEVICE

PUB. NO.: 03-221481 [JP 3221481 A]  
PUBLISHED: September 30, 1991 ( 19910930)  
INVENTOR(s): HASHIMOTO TAMAKI  
KITAZAWA HIROAKI  
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 02-016241 [JP 9016241]  
FILED: January 29, 1990 (19900129)  
INTL CLASS: [5] B41J-021/00; B41J-029/38  
JAPIO CLASS: 29.4 (PRECISION INSTRUMENTS -- Business Machines)  
JAPIO KEYWORD: R131 (INFORMATION PROCESSING -- Microcomputers &  
Microprocessors)  
JOURNAL: Section: M, Section No. 1194, Vol. 15, No. 505, Pg. 26,  
December 20, 1991 (19911220)

#### ABSTRACT

PURPOSE: To record sentences in a short time using small capacity of memory by the arrangement such that format information for recording by means of typical format is received and stored in a memory means.

CONSTITUTION: Record information is classified into format information and sentence information, and ruled lines are stored in a format memory region 7 in the form of control code indicating operation indication for recording ruled lines, such as movement position and movement quantity of a carriage of a recording device and indication of recording to a record head. And document information is stored in the form of character code. When ruled line information having format is delivered from a host device 6, said information is stored in the region 7 of RAM3 on the side of the recording device according to control procedure, so that a format indication flag is turned on. And when document information is delivered from the device 6, it is confirmed that the format indication flag has been turned on, whereby received document information is recorded as sentences arranged on the ruled lines based on the format of the region 7.

10/5/4 (Item 4 from file: 347)

DIALOG(R)File 347:JAPIO  
(c) 2005 JPO & JAPIO. All rts. reserv.

03305825     \*\*Image available\*\*  
SLIP OUTPUT DEVICE

PUB. NO.:       02-281325 [JP 2281325 A]  
PUBLISHED:     November 19, 1990 ( 19901119)  
INVENTOR(s):   MINEO SHIGEKI  
APPLICANT(s):  CASIO COMPUT CO LTD [350750] (A Japanese Company or  
                  Corporation), JP (Japan)  
APPL. NO.:     01-104268 [JP 89104268]  
FILED:         April 24, 1989 (19890424)  
INTL CLASS:    [5] G06F-003/12  
JAPIO CLASS:   45.3 (INFORMATION PROCESSING -- Input Output Units)  
JAPIO KEYWORD: R131 (INFORMATION PROCESSING -- Microcomputers &  
                          Microprocessors)  
JOURNAL:       Section: P, Section No. 1162, Vol. 15, No. 47, Pg. 127,  
                  February 05, 1991 (19910205)

#### ABSTRACT

PURPOSE: To improve the outward appearance by reading out record data in a first storage means to discriminate its **classification** level, **determining** ruled line output contents by the parameter in a second storage means corresponding to this classification level and outputting them.

CONSTITUTION: Key items of respective records are classified to minor groups and major groups in a record file 3, and '1' and '2' are set to the beginning of each record. Other items of records are classified also. A format set control part 7 analyzes ruled lines in each classification level which are drawn on the display screen of a display part 5 by the key operation of a key input part 2 to obtain a parameter of each classification for repeated output of the pattern of ruled lines at the time of slip output and stores this parameter in a format memory 4. A CPU 1 successively reads out record data from the file 3 and discriminates its **classification** level and **determines** ruled line output contents based on the corresponding parameter and successively outputs them together with records. Thus, a slip format is easily set.

10/5/5        (Item 5 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2005 JPO & JAPIO. All rts. reserv.

02961799     \*\*Image available\*\*  
AUTOMATIC MOSAIC CONVERTING SYSTEM FOR IMAGE

PUB. NO.:       01-259399 [JP 1259399 A]  
PUBLISHED:     October 17, 1989 ( 19891017)  
INVENTOR(s):   HORIUCHI KAORU  
                  KUMAZAWA HIROYUKI  
APPLICANT(s):  MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or  
                  Corporation), JP (Japan)  
APPL. NO.:     63-087353 [JP 8887353]  
FILED:         April 11, 1988 (19880411)  
INTL CLASS:    [4] G09G-001/02; G06F-015/66; G09G-001/00; G09G-001/00;  
                  H04N-001/411; H04N-001/415  
JAPIO CLASS:   44.9 (COMMUNICATION -- Other); 44.7 (COMMUNICATION --  
                  Facsimile); 45.4 (INFORMATION PROCESSING -- Computer  
                  Applications)  
JOURNAL:       Section: P, Section No. 988, Vol. 14, No. 11, Pg. 55, January  
                  11, 1990 (19900111)

#### ABSTRACT

PURPOSE: To execute a mosaic conversion processing at a high speed by generating a mosaic pattern code being optimum for block data, in a pattern code generating part provided on every group which has been classified.

CONSTITUTION: In a block processing part 3, two-dimensional image data 21 consisting of N picture element in the horizontal direction and M picture element in the vertical direction is divided into (n) X (m) pieces of blocks, and block data consisting of N/n picture element in the horizontal direction and M/m picture elements in the vertical direction is obtained. Subsequently, a control part 1 extracts a processing object block from in the block data which has been divided by a block processing part 3 from the image data 21 of a memory 2, and classifies it into three kinds of groups of mosaic pattern classification examples A-C in accordance with a classifying condition 41 in a block data classification processing part 4. Next, in accordance with a pattern code **generating rule** of each group which has been **classified**, mosaic code **data** is generated. As a result, the processing time can be shortened remarkably.

10/5/6 (Item 1 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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012152008 \*\*Image available\*\*  
WPI Acc No: 1998-568920/199848  
XRPX Acc No: N98-442586

**Data classifier and rule generator for interpreting information - involves feeding data to classifier whose input and output data is fed to rule generator for interpretation by operators**  
Patent Assignee: HOWARD G (HOWA-I); BARSON P C (BARS-I); FIELD S (FIEL-I); HOBSON P W (HOBSON-I); CEREBRUS SOLUTIONS LTD (CERE-N); NORTHERN TELECOM LTD (NELE )

Inventor: HOWARD G; BARSON P C; FIELD S; HOBSON P W  
Number of Countries: 020 Number of Patents: 006  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9847067	A1	19981022	WO 98GB418	A	19980211	199848 B
US 20010011259	A1	20010802	US 97840115	A	19970415	200147
US 6336109	B2	20020101	US 97840115	A	19970415	200207
US 20020169736	A1	20021114	US 97840115	A	19970415	200277
			US 200238103	A	20020102	
US 6647379	B2	20031111	US 97840115	A	19970415	200382
			US 200238103	A	20020102	
US 20040093316	A1	20040513	US 97840115	A	19970415	200432
			US 200238103	A	20020102	
			US 2003698171	A	20031031	

Priority Applications (No Type Date): US 97840115 A 19970415; US 200238103 A 20020102; US 2003698171 A 20031031

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9847067	A1	E	27	G06F-009/44	
				Designated States (National): CA JP US	
				Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE	
US 20010011259	A1			G06N-003/08	
US 6336109	B2			G06N-003/04	
US 20020169736	A1			G06F-015/18	Cont of application US 97840115
					Cont of patent US 6336109
US 6647379	B2			G06N-005/00	Cont of application US 97840115
					Cont of patent US 6336109
US 20040093316	A1			G06F-017/00	Cont of application US 97840115
					Cont of application US 200238103
					Cont of patent US 6336109
					Cont of patent US 6647379

Abstract (Basic): WO 9847067 A

The analysis system is used to analyse data, e.g. call description records in a telecommunications system. The data (22) is input to a data classifier (21). This analyses data records to find similar groups of data and sorts each data record into one of the classes. The input data and the output of the classifier are then fed to a **rule inducer** (25). This identifies a series of rules (24) that describe relationships between the input and **output** series of the **classifier**

Alternately a rule extractor is used. This has a neural network classifier (31) and a rule extractor (35). Training data is used to establish a set of rule to be applied to the data.

ADVANTAGE - Provides an unsupervised data classification where the output rules can be described to aid user understanding.

Dwg.2,3/8

Title Terms: DATA; CLASSIFY; RULE; GENERATOR; INTERPRETATION; INFORMATION; FEED; DATA; CLASSIFY; INPUT; OUTPUT; DATA; FEED; RULE; GENERATOR; OPERATE  
Derwent Class: T01

International Patent Class (Main): G06F-009/44; G06F-015/18; G06F-017/00; G06N-003/04; G06N-003/08; G06N-005/00

International Patent Class (Additional): G06E-001/00; G06E-003/00; G06G-007/00; G06N-005/02

File Segment: EPI

10/5/7 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011145805 \*\*Image available\*\*

WPI Acc No: 1997-123729/ 199712

XRPX Acc No: N97-102016

**Format data formation method for optical character reader - involves categorizing OK formation data group and NG format data group and displaying them on screen for error correction**

Patent Assignee: OKI ELECTRIC IND CO LTD (OKID )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9006903	A	19970110	JP 95147715	A	19950614	199712 B

Priority Applications (No Type Date): JP 95147715 A 19950614

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 9006903	A	13	G06K-009/20	

Abstract (Basic): JP 9006903 A

The method uses a photoelectric converter (21) which reads formatted images of respective documents (11-1n). Each document image is analysed by an image analysis and character recognition part (31) and the position and character of the line segment in the document image is detected. A character is recognized using a format data production part (32) based on the analysis recognition result.

A format data is produced with reference to a **format production rule** (36). An OK **format** data group and an NG format **data** group produced are **categorized** according to a breakdown part (33). A check correction part (34) checks the OK format data and the NG format data and the error location is corrected.

ADVANTAGE - Improves work efficiency. Produces format data automatically. Reduces operator's burden. Simplifies checking and correction operation. Registers correct and definite format data.

Dwg.1/12

Title Terms: FORMAT; DATA; FORMATION; METHOD; OPTICAL; CHARACTER; READ; FORMATION; DATA; GROUP; FORMAT; DATA; GROUP; DISPLAY; SCREEN; ERROR; CORRECT

Derwent Class: T04  
International Patent Class (Main): G06K-009/20  
International Patent Class (Additional): G06K-009/00; G06K-009/03  
File Segment: EPI

10/5/8 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

010759667 \*\*Image available\*\*  
WPI Acc No: 1996-256622/ 199626  
XRPX Acc No: N96-215776

Managed Information Base mounting system for open system interconnection  
- has attribute value data memory that stores each classified  
attribute value data based from standard encoding rule format of  
attribute value processing module

Patent Assignee: NEC CORP (NIDE )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8106424	A	19960423	JP 94242599	A	19941006	199626 B

Priority Applications (No Type Date): JP 94242599 A 19941006

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 8106424	A		8 G06F-013/00	

Abstract (Basic): JP 8106424 A

The system has an instance attribute manager (11) that classifies and regulates each attribute value data based from the reference information of a class definition dictionary (12). Each class of the classified attribute value data is sequentially supplied to an attribute data storing memory (13).

Likewise, the attribute value data storing is performed according to a standard encoding rule format of an attribute value processing module (14).

ADVANTAGE - Reduces storage load of memory by simplifying attribute data value using attribute value processing module.

Dwg.1/3

Title Terms: INFORMATION; BASE; MOUNT; SYSTEM; OPEN; SYSTEM; INTERCONNECT;  
ATTRIBUTE; VALUE; DATA; MEMORY; STORAGE; CLASSIFY; ATTRIBUTE; VALUE; DATA  
; BASED; STANDARD; ENCODE; RULE; FORMAT; ATTRIBUTE; VALUE; PROCESS;  
MODULE

Index Terms/Additional Words: MIB; OSI

Derwent Class: T01; W01

International Patent Class (Main): G06F-013/00

International Patent Class (Additional): H04L-029/10

File Segment: EPI

10/5/9 (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

010645855 \*\*Image available\*\*  
WPI Acc No: 1996-142809/ 199615  
XRPX Acc No: N96-119601

Transmission line breakdown section and condition determination - by  
conferring breakdown section from classification output of self  
organisation neural network considering under observation measurement  
data as input based on consultation rule

Patent Assignee: HITACHI CABLE LTD (HITD ); TOKYO ELECTRIC POWER CO INC  
(TOEP )

Inventor: KANETA M; MATSUBARA R; OHURA K

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8029480	A	19960202	JP 94162419	A	19940714	199615 B
US 5712796	A	19980127	US 95501573	A	19950712	199811
JP 3058564	B2	20000704	JP 94162419	A	19940714	200036

Priority Applications (No Type Date): JP 94162419 A 19940714

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 8029480	A		8	G01R-031/08	
US 5712796	A		11	G01R-031/08	
JP 3058564	B2		8	G01R-031/08	Previous Publ. patent JP 8029480

Abstract (Basic): JP 8029480 A

The method involves calculating the measurement data pertaining to the trouble in various locations brought by the breakdown imitation calculation done beforehand. The imitation measurement data are then passed to the self-organisation neural network with many output than input element.

The consultation rule and a breakdown position is created by the correspondence relation of a classification output of the imitation measurement data. Based on the consultation rule, the breakdown section is conferred from the classification output of the self-organisation neural network.

USE/ADVANTAGE - For conferring and extracting breakdown section to narrower range than space of current measurement thus transmission line range is narrowed at breakdown time. Reduces labour and time for breakdown. Easily prepares mobilising attitude of workers at inspection time.

Dwg.1/8

Title Terms: TRANSMISSION; LINE; BREAKDOWN; SECTION; CONDITION; DETERMINE; CONFER; BREAKDOWN; SECTION; CLASSIFY; OUTPUT; SELF; ORGANISE; NEURAL; NETWORK; OBSERVE; MEASURE; DATA; INPUT; BASED; RULE

Derwent Class: S01; T01; V07; X12

International Patent Class (Main): G01R-031/08

International Patent Class (Additional): H02J-000/00

File Segment: EPI

10/5/10 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010384849 \*\*Image available\*\*

WPI Acc No: 1995-286163/ 199538

Related WPI Acc No: 1998-495304

Data processing system - has output part to provide analysis result pertaining to data collected from cell servers by analysing part in client appts

Patent Assignee: HITACHI LTD (HITA )

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 7182368	A	19950721	JP 93327352	A	19931224	199538 B
JP 3185167	B2	20010709	JP 93327352	A	19931224	200140

Priority Applications (No Type Date): JP 93327352 A 19931224

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 7182368	A		12	G06F-017/30	
JP 3185167	B2		12	G06F-017/30	Previous Publ. patent JP 7182368

Abstract (Basic): JP 7182368 A

The data processing system includes a client processing appts.

(102) and a number of server processing appts (103-106) connected together in client server architecture. The client has a database to store this data in table format. The storing of data is to be done pertaining to a specific system of classification. An input demand received by the client appts is transmitted along with a classification roll to all servers. The **rule** defines the way by which the **input data** to be **classified** and using first transferring all process server appts are made to receive the two data to effect parallel processing.

The data is processed in the server appts by a classification executing part, based on the specific rule provided to it and is transmitted back to the client appts using a second transferring process. An analysing part in the client appts collectively analyses the data received from all server appts. The data processing system outputs these analysis results to the user through an output part.

ADVANTAGE - Processes data at high speed. Minimises network load.

Dwg.1/18

Title Terms: DATA; PROCESS; SYSTEM; OUTPUT; PART; ANALYSE; RESULT; PERTAIN;

DATA; COLLECT; CELL; SERVE; ANALYSE; PART; CLIENT; APPARATUS

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06F-009/44; G06F-012/00

File Segment: EPI

10/5/11 (Item 6 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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010232847 \*\*Image available\*\*

WPI Acc No: 1995-134104/ 199518

XRPX Acc No: N95-105449

**Compression-expansion method for electrical music instrument performance data - restoring large volume performance data by carrying out expansion of rule for compression, rule corresp. to each data structure**

Patent Assignee: ROLAND KK (ROLA-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 7056568	A	19950303	JP 93205146	A	19930819	199518 B

Priority Applications (No Type Date): JP 93205146 A 19930819

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 7056568	A	10	G10H-001/00	

Abstract (Basic): JP 7056568 A

The method entails the compression or expansion of performance data located in large volume in a time period.

The performance **data** is **classified** for every predetermined **data** structure. A compression **rule** is then **created** for every structure. The performance data is stored by expanding this compression rule.

ADVANTAGE - Shortens data length of higher frequency rank and processing time. It also restricts pressure shrinkage rate and reduces dictionary data.

Dwg.1/15

Title Terms: COMPRESS; EXPAND; METHOD; ELECTRIC; MUSIC; INSTRUMENT;

PERFORMANCE; DATA; RESTORATION; VOLUME; PERFORMANCE; DATA; CARRY; EXPAND;

RULE; COMPRESS; RULE; CORRESPOND; DATA; STRUCTURE

Derwent Class: P86; T01; U21; W04

International Patent Class (Main): G10H-001/00

International Patent Class (Additional): G06F-005/00; H03M-007/30

File Segment: EPI; EngPI

10/5/12 (Item 7 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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010219051 \*\*Image available\*\*

WPI Acc No: 1995-120305/ 199516

XRPX Acc No: N95-094798

**Cell reduction apparatus for LSI design - incorporates cell reduction part to replace grouped macro cell by other macro cells after referring mapping library**

Patent Assignee: MITSUBISHI ELECTRIC CORP (MITQ )

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 7045707	A	19950214	JP 93158825	A	19930629	199516 B
JP 3195467	B2	20010806	JP 93158825	A	19930629	200147

Priority Applications (No Type Date): JP 93158825 A 19930629

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 7045707	A	18	H01L-021/82	
JP 3195467	B2	14	H01L-021/82	Previous Publ. patent JP 7045707

Abstract (Basic): JP 7045707 A

The cell reduction apparatus includes an input-output. Two or more cells are described in the macro cell library. The mapping library describes the rule for replacement of classified macro cells by other cells. For the **classified** macro cells, logical connection **information** is **built** up according to predetermined **rule** which specifies the case where the kind of macro cell in which a classification is possible among above referred macro cells. The cell reduction part replaces classified macro cells by other macro cells after referring mapping library.

**ADVANTAGE** - Provides circuit area and wiring reducing, flexibility in cell reduction, provides suitable logic connection information.

Dwg.1/16

Title Terms: CELL; REDUCE; APPARATUS; LSI; DESIGN; INCORPORATE; CELL; REDUCE; PART; REPLACE; GROUP; MACRO; CELL; MACRO; CELL; AFTER; REFER; MAP ; LIBRARY

Derwent Class: T01; U11; U13

International Patent Class (Main): H01L-021/82

International Patent Class (Additional): G06F-017/50; H01L-021/822;

H01L-027/04

File Segment: EPI

10/5/13 (Item 8 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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009703007 \*\*Image available\*\*

WPI Acc No: 1993-396560/ 199350

XRPX Acc No: N93-306501

**Fuzzy logic controller with high processing speed - has input variable classified according to membership functions defined with overlap and using stored rules .**

Patent Assignee: SIEMENS AG (SIEI )

Inventor: EICHFELD H; KUENEMUND T

Number of Countries: 006 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 573845	A2	19931215	EP 93108532	A	19930526	199350 B
US 5371832	A	19941206	US 9322447	A	19930225	199503
EP 573845	A3	19940420	EP 93108532	A	19930526	199523

EP 573845	B1	19970312	EP 93108532	A	19930526	199715
DE 59305694	G	19970417	DE 505694	A	19930526	199721
			EP 93108532	A	19930526	

Priority Applications (No Type Date): DE 4219348 A 19920612

Cited Patents: No-SR.Pub; 2.Jnl.Ref; EP 173383; EP 445797; EP 452824

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 573845	A2	G	21	G05B-013/02	
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Designated States (Regional): DE FR GB IT NL

US 5371832	A		20	G06F-015/18	
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EP 573845	B1	G	22	G05B-013/02	
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Designated States (Regional): DE FR GB IT NL

DE 59305694	G			G05B-013/02	Based on patent EP 573845
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EP 573845	A3			G05B-013/02	
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Abstract (Basic): EP 573845 A

A fuzzy logic controller is structured with a fuzzification circuit (FUZ) a rules decoder (RDEC) a rule interpretation circuit (RA), inference circuit (NF), a defuzzification circuit (DFUZ) and a cycle controller (CTRL)> The system receives a number of input variables stored in memory and values are assigned for the membership functions. The membership functions overlap and provide a maximum number of linguistic values that have weighting values.

The parameters are stored in chip memory and provides a rapid processing rate.

ADVANTAGE - High speed processing and flexibility of operation.

Dwg.1/10

Title Terms: FUZZ; LOGIC; CONTROL; HIGH; PROCESS; SPEED; INPUT; VARIABLE;

CLASSIFY; ACCORD; MEMBER; FUNCTION; DEFINE; OVERLAP; STORAGE; RULE

Derwent Class: T01; T06; U21

International Patent Class (Main): G05B-013/02; G06F-015/18

International Patent Class (Additional): G06F-007/60; G06F-009/44

File Segment: EPI

File 348:EUROPEAN PATENTS 1978-2005/Jun W02

(c) 2005 European Patent Office

File 349:PCT FULLTEXT 1979-2005/UB=20050616,UT=20050609

(c) 2005 WIPO/Univentio

Set	Items	Description
S1	8961	(CLASSIFIED OR CATEGORIZED OR CATEGORISED) (5N) (RECORDS OR - DATA OR INFORMATION OR DOCUMENTS OR CONTENT OR ARTICLES OR IN- PUT? ? OR ELEMENTS OR ITEMS OR OBJECTS OR FILES)
S2	1633	OUTPUT? ? (5N) (CLASSIFIER? ? OR CLASSIFY??? OR CLASSIFICATI- ON OR CATEGORIZ? OR CATEGORIS?)
S3	30818	RULE? ? (5N) (GENERAT? OR PRODUC???? OR CONSTRUCT? OR ESTABL- ISH? OR CREAT???? OR FASHION? OR FORM?? OR FORMING OR FORMATI- ON? ? OR DEVELOP? OR BUILT OR BUILD??? OR COMPUTE OR COMPUTES OR COMPUTED OR COMPUTING)
S4	23319	RULE? ? (5N) (DETERMIN????? OR DISCERN? OR DERIV??? OR CALCU- LA? OR DEFIN??? OR INDUC?????)
S5	45	S1:S2 (10N) S3:S4
S6	67	S1:S2 (15N) S3:S4
S7	67	IDPAT (sorted in duplicate/non-duplicate order)

7/3,K/4 (Item 4 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01897647

**Method and apparatus for fault segmentation in a telephone network**  
**Verfahren und Gerat zur Fehlersegmentierung in einem Fernsprechnetzwerk**  
**Procede et appareil de segmentation des defaillances dans un reseau**  
**telephonique commute**

PATENT ASSIGNEE:

TERADYNE, INC., (1688511), 321 Harrison Avenue, Boston, Massachusetts  
02118-2238, (US), (Applicant designated States: all)

INVENTOR:

Rosen, Joseph S., 2914 W. Jarlath Street, Chicago, IL 60645, (US)  
Schmidt, Kurt E., 6444 Brever Road, Burlington, Wisconsin 53105, (US)  
Groessler, David J., 306 Meridith Place, Vernon Hills, Illinois 60061, (US)  
Bauer, Frank R., 2232 Shiloh Drive, Long Grove, Illinois 60047, (US)

LEGAL REPRESENTATIVE:

Collins, John David (74592), Marks & Clerk 90 Long Acre, London WC2E 9RA,  
(GB)

PATENT (CC, No, Kind, Date): EP 1530353 A2 050511 (Basic)

APPLICATION (CC, No, Date): EP 2005075159 950922;

PRIORITY (CC, No, Date): US 311802 940926

DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; IT; LI; NL; PT; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 783813 (EP 95935092)

INTERNATIONAL PATENT CLASS: H04M-003/30; H04M-003/08

ABSTRACT WORD COUNT: 130

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200519	706
SPEC A	(English)	200519	15936
Total word count - document A			16642
Total word count - document B			0
Total word count - documents A + B			16642

...SPECIFICATION any convenient manner. They may run partially in parallel or completely sequentially. It is necessary, though, that rule based classifier 310 produce an output before case based classifier 312 operates. Also, it is necessary that rule based classifier 310, case based classifier 312 and tree based classifier 314 all produce outputs before arbitrator 316 produces an output.

Rule based classifier 310 is developed from commercially available expert system software. A suitable commercially available software package is CLIPS, which is sold...

7/3,K/5 (Item 5 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2005 European Patent Office. All rts. reserv.

01753647

**Method and system for automatic generation of an electronic balance sheet**  
**Verfahren und System zur automatischen Erzeugung einer elektronischen Bilanz**

**Procede et systeme pour la generation automatique d'un bilan electronique**

PATENT ASSIGNEE:

Danicom Management ApS, (4678440), Ordrup Jagtvej 17, 2920 Charlottenlund  
, (DK), (Applicant designated States: all)

INVENTOR:

Lund, Kai, Ordrup Jagtvej 17, 2920 Charlottenlund, (DK)

Fog, Ivar, Ibstrupvej 21, 2820 Gentofte, (DK)  
LEGAL REPRESENTATIVE:  
Andersen, Poul Hoeg et al (128331), Zacco Denmark A/S, Hans Bekkevolds  
Alle 7, 2900 Hellerup, (DK)  
PATENT (CC, No, Kind, Date): EP 1434155 A1 040630 (Basic)  
APPLICATION (CC, No, Date): EP 2003388090 031223;  
PRIORITY (CC, No, Date): DK 972002019 021223  
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR  
EXTENDED DESIGNATED STATES: AL; LT; LV; MK  
INTERNATIONAL PATENT CLASS: G06F-017/60  
ABSTRACT WORD COUNT: 166  
NOTE:

Figure number on first page: 1b

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:  
Available Text Language Update Word Count  
CLAIMS A (English) 200427 1575  
SPEC A (English) 200427 8748  
Total word count - document A 10323  
Total word count - document B 0  
Total word count - documents A + B 10323

...SPECIFICATION between the central and local system. In this way, the user may perform tasks like updating or **generating rules**, manually categorise records/items, etc. while not being connected. Further, new **records / items** may (ongoing) be **categorised** at the central location before the user connects, so they are ready when the user connects.  
Upon...

7/3,K/6 (Item 6 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01552848  
SIGNAL COUPLING METHOD AND APPARATUS  
SIGNALKOPPELVERFAHREN UND -VORRICHTUNG  
PROCEDE ET APPAREIL DE COUPLAGE DE SIGNAUX  
PATENT ASSIGNEE:

Kabushiki Kaisha Kenwood, (852520), 2967-3, Ishikawa-cho, Hachioji-shi,  
Tokyo 192-8525, (JP), (Applicant designated States: all)  
Advanced Telecommunication Research Institute International, (3388570),  
2-2, Hikaridai 2-chome, Seika-cho, Soraku-gun, Kyoto 619-0288, (JP),  
(Applicant designated States: all)

INVENTOR:

SATO, Yasushi, 4-16-18-401, Minaminagareyama, Nagareyama-shi, Chiba  
270-0163, (JP)

DAVIN, Patrick, Takanoharaekihigashidanchi 7-201, 7-1-1, Sourakudai,  
Kizu-cyo, Souraku-gun, Kyoto 619-0223, (JP)

LEGAL REPRESENTATIVE:

Patentanwalte Leinweber & Zimmermann (100262), Rosental 7, II Aufgang,  
80331 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1403851 A1 040331 (Basic)  
WO 2003005342 030116  
APPLICATION (CC, No, Date): EP 2002738817 020627; WO 2002JP6479 020627  
PRIORITY (CC, No, Date): JP 2001201408 010702  
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR  
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI  
INTERNATIONAL PATENT CLASS: G10L-013/04; G10L-013/06; G10L-013/08  
ABSTRACT WORD COUNT: 147  
NOTE:

Figure number on first page: 0002

LANGUAGE (Publication,Procedural,Application): English; English; Japanese  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200414	955
SPEC A	(English)	200414	4474
Total word count - document A			5429
Total word count - document B			0
Total word count - documents A + B			5429

...SPECIFICATION such as text reading software, telephone number guide, stock guide, traveller's guide, shop guide, and traffic information .  
Voice synthesizing methods are classified mainly into a rule synthesizing method and a form editing method.  
The rule synthesizing method performs morpheme analysis of a text from which voices are synthesized, and in accordance with...

7/3,K/7 (Item 7 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01417776

System and method for diagnosing and validating a machine over a network using waveform data

System und Verfahren zur Validierung eines Gerats uber ein Netzwerk mittels Wellenform-daten

Systeme et procede pour valider une machine dans un reseau a l'aide des donnees d'onde

PATENT ASSIGNEE:

GENERAL ELECTRIC COMPANY, (203903), 1 River Road, Schenectady, NY 12345, (US), (Applicant designated States: all)

INVENTOR:

Bonissone, Piero Patrone, 1065 Avon road, Schenectady, New York 12308, (US)

Ramani, Vipin Kewal, 5156 Hart Mill Drive, Glen Allen, VA 23060, (US)

Chen, Yu-To, 1223 Carlyle Drive, Niskayuna, New York 12309, (US)

Shah, Rasiklal Punjalal, 8 Windlass Drive, Latham, New York 12110, (US)

Johnson, John Andrew, W322 S1734 Moraine View Drive, Delafield, Wisconsin 53018, (US)

Ramachandran, Ramesh, 10509 Goddard Apartments no. 279, Overland Park, Kansas 66214, (US)

Steen, Phillip Edward, N9W 31418 Concord Lane, Delafield, Wisconsin 53018, (US)

LEGAL REPRESENTATIVE:

Pedder, James Cuthbert et al (34801), GE London Patent Operation, Essex House, 12/13 Essex Street, London WC2R 3AA, (GB)

PATENT (CC, No, Kind, Date): EP 1197861 A2 020417 (Basic)

APPLICATION (CC, No, Date): EP 2001304614 010524;

PRIORITY (CC, No, Date): US 578401 000526

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-011/00

ABSTRACT WORD COUNT: 89

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200216	512
SPEC A	(English)	200216	9551
Total word count - document A			10063
Total word count - document B			0

Total word count - documents A + B 10063

...SPECIFICATION training feature extractor (26) for extracting a plurality of features from each of the sets of waveform data (18) categorized as faulty data ; and

a training fault classifier (28) for developing a plurality of rules (76) and (78) that classify the feature extractions into a fault characterization and providing the plurality of...

...as normal and faulty data;

extracting a plurality of features from each of the sets of waveform data (18) categorized as faulty data ; and

developing a plurality of rules (76) and (78) that classify the feature extractions into a fault characterization.

22. The method according to...

7/3,K/8 (Item 8 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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014111619

Intelligently classifying and handling user requests in a data service system

Intelligente Klassifizierung und Behandlung von Benutzeranforderungen in einem Datendienstsystem

Classification et traitement intelligents de requetes d'utilisateurs dans un systeme de service de donnees

PATENT ASSIGNEE:

Hewlett-Packard Company, A Delaware Corporation, (3016020), 3000 Hanover Street, Palo Alto, CA 94304, (US), (Applicant designated States: all)

INVENTOR:

Zara, Anna Maria, 4 East Creel Pl., Menlo Park, CA 94025, (US)

Ramanathan, Srinivas, 63 Fourt Street, Abirampuram, Chennai-600018, (IN)

Bhoj, Preeti N., 10690 Castine Ave., Cupertino, CA 95014, (US)

LEGAL REPRESENTATIVE:

Schoppe, Fritz, Dipl.-Ing. (55464), Patentanwalte Schoppe, Zimmermann,

Stockeler & Zinkler, Postfach 71 08 67, 81458 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1193596 A2 020403 (Basic)

APPLICATION (CC, No, Date): EP 2001122210 010917;

PRIORITY (CC, No, Date): US 666910 000921

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;

LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-009/50

ABSTRACT WORD COUNT: 180

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
----------------	----------	--------	------------

CLAIMS A	(English)	200214	674
----------	-----------	--------	-----

SPEC A	(English)	200214	4902
--------	-----------	--------	------

Total word count - document A			5576
-------------------------------	--	--	------

Total word count - document B			0
-------------------------------	--	--	---

Total word count - documents A + B			5576
------------------------------------	--	--	------

...CLAIMS transaction such that subsequent requests that are part of the same transaction do not need to be classified again.

3. The data service system of claim 2, wherein the tag generator causes the business rule engine to re-applies the business rules to responses for the subsequent requests to determine if reclassification...

7/3,K/9 (Item 9 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2005 European Patent Office. All rts. reserv.

01117664

**Sorting system and method**  
**Sortierungssystem und Methode**  
**Systeme et methode de tri**

**PATENT ASSIGNEE:**

Hitachi, Ltd., (204151), 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo  
101-8010, (JP), (Proprietor designated states: all)

**INVENTOR:**

Arakawa, Hiroshi, 3871-1-201, Totsukacho, Totsuka-ku, Yokohama-shi, (JP)  
Yamamoto, Akira, 5-61, Wakamatsu-6-chome, Sagamihara-shi, (JP)  
Honma, Shigeo, 201-18, Yahagi, Odawara-shi, (JP)  
Ohata, Hideo, 1-33-402, Jonan-3-chome, Fujisawa-shi, (JP)

**LEGAL REPRESENTATIVE:**

Strehl Schubel-Hopf & Partner (100941), Maximilianstrasse 54, 80538  
Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 978782 A1 000209 (Basic)  
EP 978782 B1 031126

APPLICATION (CC, No, Date): EP 99114942 990730;

PRIORITY (CC, No, Date): JP 98219253 980803

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-007/36

ABSTRACT WORD COUNT: 131

**NOTE:**

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200006	1224
CLAIMS B	(English)	200348	846
CLAIMS B	(German)	200348	774
CLAIMS B	(French)	200348	958
SPEC A	(English)	200006	11610
SPEC B	(English)	200348	10361
Total word count - document A			12836
Total word count - document B			12939
Total word count - documents A + B			25775

...SPECIFICATION unit 105 of the input node uses the internally sorted result in the buffer 810 of the **records** in each **classified** record group corresponding to the output node **determined** by the predetermined node decision **rule**, as the sorted result for the determined output node, and selects the region for storing the sorted...

...SPECIFICATION unit 105 of the input node uses the internally sorted result in the buffer 810 of the **records** in each **classified** record group corresponding to the output node **determined** by the predetermined node decision **rule**, as the sorted result for the determined output node, and selects the region for storing the sorted...

...CLAIMS of the nodes determined by said output node determining unit (107) and for rearranging the order of **records** in each **classified** record group in accordance with a predetermined sorting **rule** to **form** a sorted string; and means (105, 820) for distributing and storing said sorted string into storage areas...

...one of the output nodes determined by said output node determining step, and rearranging the order of **records** in each **classified** record

group in accordance with a predetermined sorting rule to form a sorted string, and distributing and storing said sorted string into storage areas of said shared external...

7/3,K/10 (Item 10 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00674450

Method for structuring an expert system utilizing one or more neural networks.

Strukturierverfahren eines Expertensystems mit einem oder mehreren Neuronalnetzwerken.

Méthode pour structurer un système expert utilisant un ou plusieurs réseaux neuronaux.

PATENT ASSIGNEE:

MOTOROLA, INC., (205770), 1303 East Algonquin Road, Schaumburg, IL 60196, (US), (applicant designated states: DE;FR;GB;NL)

INVENTOR:

Wang, Shay-Ping Thomas, 1701 Edgewood Lane,, Long Grove, Illinois 60047, (US)

LEGAL REPRESENTATIVE:

Hudson, Peter David et al (52403), Motorola European Intellectual Property Midpoint Alencon Link, Basingstoke, Hampshire RG21 1PL, (GB)

PATENT (CC, No, Kind, Date): EP 646879 A1 950405 (Basic)

APPLICATION (CC, No, Date): EP 94115117 940926;

PRIORITY (CC, No, Date): US 129275 930930

DESIGNATED STATES: DE; FR; GB; NL

INTERNATIONAL PATENT CLASS: G06F-015/80;

ABSTRACT WORD COUNT: 110

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	643
SPEC A	(English)	EPAB95	5016
Total word count - document A			5659
Total word count - document B			0
Total word count - documents A + B			5659

...SPECIFICATION of N values, N being a positive integer. In the example shown in FIG. 16 above, each **Input** was **classified** into one of five values.

Next, in box 147 a plurality of groups of **Production Rules** are **defined** by relating, for each of such groups, one of the Outputs to one or more of the...

7/3,K/11 (Item 11 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2005 European Patent Office. All rts. reserv.

00636627

Signal recording and reproducing apparatus

Signalaufzeichnungs- und Wiedergabegerat

Appareil d'enregistrement et de reproduction de signaux

PATENT ASSIGNEE:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., (216880), 1006, Ohaza Kadoma, Kadoma-shi, Osaka 571-8501, (JP), (applicant designated states: DE;FR;GB;NL)

INVENTOR:

Hamamoto, Yasuo, 2-7-8-301, Shimokosaka, Higashiosaka-shi, Osaka, (JP)  
Takeuchi, Akihiro, 1-1175-16, Nakanabata, Ikoma-shi, Nara-ken, (JP)

Morimoto, Kenji, 1-7-16-504, Takami, Konohana-ku, Osaka-shi, Osaka, (JP)  
 Kohn, Katsufumi, 4-13-31, Hamaderaishizuchō-Higashi, Sakai-shi, Osaka,  
 (JP)  
 Sakakibara, Yoshio, 9-12-301, Midori-machi, Neyagawa-shi, Osaka, (JP)  
 Gotou, Makoto, 4-7-2, Naruo-cho, Nishinomiya-shi, Hyogo-ken, (JP)  
 LEGAL REPRESENTATIVE:  
 Marx, Lothar, Dr. (8071), Patentanwälte Schwabe, Sandmair, Marx  
 Stuntzstrasse 16, 81677 München, (DE)  
 PATENT (CC, No, Kind, Date): EP 618567 A2 941005 (Basic)  
 EP 618567 A3 960918  
 EP 618567 B1 990728  
 APPLICATION (CC, No, Date): EP 94103038 940301;  
 PRIORITY (CC, No, Date): JP 4250093 930303; JP 4250193 930303; JP 7923693  
 930406; JP 10090493 930427; JP 14588993 930617; JP 16341793 930701; JP  
 18997793 930730; JP 19587693 930806; JP 27952293 931109  
 DESIGNATED STATES: DE; FR; GB; NL  
 INTERNATIONAL PATENT CLASS: G11B-005/008; G11B-020/10; H04N-005/92;  
 H04N-005/783; H04N-005/94;  
 ABSTRACT WORD COUNT: 143

LANGUAGE (Publication,Procedural,Application): English; English; English  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9930	1436
CLAIMS B	(German)	9930	1255
CLAIMS B	(French)	9930	1577
SPEC B	(English)	9930	23155
Total word count - document A			0
Total word count - document B			27423
Total word count - documents A + B			27423

...SPECIFICATION by the numerals in Figure 26. In Figure 26, the lower numeral indicates the higher priority. The **determination rule** of the priority is not limited to the rule shown in Figure 26. Alternatively, the **data** may be **classified** in accordance with other criteria, or priorities other than the priorities described given may be given. The...

7/3,K/12 (Item 12 from file: 348)  
 DIALOG(R)File 348:EUROPEAN PATENTS  
 (c) 2005 European Patent Office. All rts. reserv.

00592041

**An occupant condition determining apparatus.**

**Vorrichtung zur Ermittlung des Zustandes eines Raumbenutzers.**

**Appareil determinant la condition d'un occupant.**

PATENT ASSIGNEE:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., (216883), 1006, Oaza Kadoma,  
 Kadoma-shi, Osaka-fu, 571, (JP), (applicant designated states:  
 DE;FR;GB)

INVENTOR:

Araki, Shoichi, 5-6-3, Seiku, Joto-ku, Osaka-shi, (JP)  
 Nomura, Hiroyoshi, 104 Shitomiya Mansion, 1-3, Shitomiyahon-machi,  
 Shijonawate-shi, Osaka, (JP)  
 Wakami, Noboru, 44-1, Yamanouekita-machi, Hirakata-shi, Osaka, (JP)  
 Imanaka, Takeshi, 4-9-405, Ikuno, Katano-shi, Osaka, (JP)

LEGAL REPRESENTATIVE:

Marx, Lothar, Dr. et al (8071), Patentanwälte Schwabe, Sandmair, Marx  
 Stuntzstrasse 16, D-81677 München, (DE)  
 PATENT (CC, No, Kind, Date): EP 589448 A1 940330 (Basic)  
 APPLICATION (CC, No, Date): EP 93115345 930923;  
 PRIORITY (CC, No, Date): JP 92254302 920924; JP 93175233 930715  
 DESIGNATED STATES: DE; FR; GB  
 INTERNATIONAL PATENT CLASS: G05D-023/19; F24F-011/00; G06M-011/00;  
 ABSTRACT WORD COUNT: 183

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	1302
SPEC A	(English)	EPABF2	14933
Total word count - document A			16235
Total word count - document B			0
Total word count - documents A + B			16235

...SPECIFICATION apparatus which can realize more comfortable air-conditions by controlling in the following manner. First, by using **rules** for **determining** the number of groups into which the **elements** are **classified** depending on the feature amount of the thermal image, the classifying of elements can be accomplished at...in that the number-of-groups determining section 3 in the first example is replated by a **rule**-base number-of-groups **determining** section 7 which determines the number of groups into which **elements** are **classified** by using **rules** of If-then **forms** which indicate the relationships between the feature amount of the thermal image and the number of groups into which **elements** are **classified**.

The **rule**-base number-of-groups **determining** section 7 stores **rules** for **determining** the number of groups, i.e., the number of clusters expressed by Expression (11).

If (Var is...the determination time is greatly shortened.

As described above, according to the second example, by using the **rules** of If-then **forms** for **determining** the number of groups into which **elements** are **classified** based on the feature amounts of the thermal image, the classification of the elements into a plurality...in the room can be identified.

According to the apparatus of the second example, by using the **rules** for **determining** the number of groups into which **elements** are **classified** based on the feature amounts of a thermal image, the classification of the elements into a plurality...

7/3,K/13 (Item 13 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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00551927

Apparatus for controlling weft insertion in jet loom  
Schusseintragkontrollvorrichtung in Dusenwebmaschine  
Dispositif de controle de l'insertion de trame dans un metier a jet  
PATENT ASSIGNEE:

Kabushiki Kaisha Toyoda Jidoshokki Seisakusho, (243480), 1, Toyoda-cho  
2-chome, Kariya-shi, Aichi-ken 448, (JP), (applicant designated states:  
BE;DE;FR;IT)

INVENTOR:

Kato, Masahiko, c/o Kabushiki Kaisha Toyoda, Jidoshokki Seisakusho, 1,  
Toyoda-cho 2-chome, Kariya-shi, Aichi-ken, (JP)

LEGAL REPRESENTATIVE:

Hammer, Bruno, Dr. (62424), c/o Sulzer Management AG KS/Patente/0007,  
8401 Winterthur, (CH)

PATENT (CC, No, Kind, Date): EP 501920 A1 920902 (Basic)  
EP 501920 B1 960925

APPLICATION (CC, No, Date): EP 92810126 920220;

PRIORITY (CC, No, Date): JP 9130471 910225

DESIGNATED STATES: BE; DE; FR; IT

INTERNATIONAL PATENT CLASS: D03D-047/30;

ABSTRACT WORD COUNT: 216

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	964
CLAIMS B	(English)	EPAB96	1106
CLAIMS B	(German)	EPAB96	973
CLAIMS B	(French)	EPAB96	1371
SPEC A	(English)	EPABF1	7247
SPEC B	(English)	EPAB96	7020
Total word count - document A			8211
Total word count - document B			10470
Total word count - documents A + B			18681

...SPECIFICATION accordance with weft insertion control quantity sequencing rules on the other hand.

The weft insertion start timing data are classified into a plurality of sequentially arrayed weft insertion start timing data in accordance with sequencing rules defining the insertion start timing, for example, to be "early", "slightly early", "normal", "slightly late" and "late". On...

...SPECIFICATION accordance with weft insertion control quantity sequencing rules on the other hand.

The weft insertion start timing data are classified into a plurality of sequentially arrayed weft insertion start timing data in accordance with sequencing rules defining the insertion start timing, for example, to be "early", "slightly early", "normal", "slightly late" and "late". On...

7/3,K/14 (Item 14 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00400692

System including inductive learning arrangement for adaptive management of behavior of complex entity.

System einschliesslich einer induktiven Lerneinrichtung fur die adaptive Verwaltung eines komplexen Objektverhaltens.

Systeme comprenant un dispositif d'apprentissage inductif pour le traitement adaptatif du comportement d'un objet complexe.

PATENT ASSIGNEE:

DIGITAL EQUIPMENT CORPORATION, (313085), 111 Powdermill Road, Maynard, MA 01754, (US), (applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;LU;NL;SE)

INVENTOR:

C-Y Lu, Stephen, 1205 Wilshire Court, Champaign, Illinois 61821, (US)  
Teng, Henry S., 39 Britt Lane, Groton, Massachusetts 01450, (US)  
Tseng, Mitchell M., 35 Whispering Pine Road, Sudbury, Massachusetts 01776, (US)

LEGAL REPRESENTATIVE:

Goodman, Christopher et al (31122), Eric Potter & Clarkson St. Mary's Court St. Mary's Gate, Nottingham NG1 1LE, (GB)

PATENT (CC, No, Kind, Date): EP 396382 A2 901107 (Basic)  
EP 396382 A3 910925

APPLICATION (CC, No, Date): EP 90304713 900501;

PRIORITY (CC, No, Date): US 346133 890502

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; NL; SE

INTERNATIONAL PATENT CLASS: G06F-015/18; G06F-015/40;

ABSTRACT WORD COUNT: 156

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	621
SPEC A	(English)	EPABF1	5135
Total word count - document A			5756

Total word count - document B 0  
Total word count - documents A + B 5756

...SPECIFICATION the profile knowledge store 15. In the processing the profile comparator 12 attempts to determine whether the **classified** acquired event **data** item corresponds to the stored profile **rules**, thereby **determining** whether the **classified** acquired **data** from the **data** acquisition portion 10 during the OPERATE phase corresponds to the **classified** acquired data received during the LEARN...CONFIRMATION indication during the CONFIRM sub-phase. In both cases, the executive control module 14 enables the **classified data** which gave rise to the SUCCESS/FAIL indication of FAIL to be transferred to the **induction** engine 11, which **generates** additional **rules** for storage in the profile knowledge store 15. The additional rules are available for use in conjunction...

...classes (step 101). The executive control module 14 thereafter enables the induction engine 11 to receive the **classified** acquired **data** from the **data** acquisition portion 10 and **generate** in response thereto profile **rules** (step 102) which are stored in the profile knowledge store 15 (step 103).

If, in step 100...store 15 may be modified during the OPERATE phase, the executive control module 14 enables the verification **data** to be **classified** and transferred to the induction engine 11 (step 121), which **generates** additional profile **rules** for storage in the profile knowledge store 15 (step 122). The executive control module 14 may then

7/3,K/30 (Item 30 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01139065 \*\*Image available\*\*  
METHOD AND APPARATUS FOR MANAGING PACKET FLOWS FOR MULTIPLE NETWORK SERVICES

PROCEDE ET APPAREIL DE GESTION D'ECOULEMENT DE PAQUETS POUR DES SERVICES MULTIPLES DE RESEAU

Patent Applicant/Assignee:

SUN MICROSYSTEMS INC, 4150 Network Circle, Santa Clara, CA 95054, US, US  
(Residence), US (Nationality)

Inventor(s):

BRESSLER Robert D, 1891 Vallejo Street, St. Helena, CA 94574, US,  
SCHUBA Christoph L, Konrad Adenauer Str 87, Sandhausen, DE,  
SPEER Michael F, 73 Dalma Drive, Mountain View, CA 94041, US,

Legal Representative:

PARK Richard (agent), 508 Second St., Ste. 201, Davis, CA 95616, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200462206 A2-A3 20040722 (WO 0462206)

Application: WO 2003US32232 20031010 (PCT/WO US03032232)

Priority Application: US 2002329016 20021223

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK  
LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC  
SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE  
SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4378

Fulltext Availability:

Detailed Description

Detailed Description

... part of a new flow. Information associated with the packet feeds through packet adaptation layer 526 into **classifier** 518 flow manager 402. The **output** of **classifier** 518 feeds into exception manager 521, which **generates rules** for the new flow. These rules are stored in dynamic rule database 524 and are used to...

...in rule table 535. This new flow is communicated to classifier 518 within flow manager 402. The **output** of **classifier** 518 is used by exception manager 521 to **produce new rules** for the new flow (step 704). These new rules are then integrated into the consistent set of...

File 275:Gale Group Computer DB(TM) 1983-2005/Jun 17  
     (c) 2005 The Gale Group  
 File 621:Gale Group New Prod.Annou.(R) 1985-2005/Jun 16  
     (c) 2005 The Gale Group  
 File 636:Gale Group Newsletter DB(TM) 1987-2005/Jun 17  
     (c) 2005 The Gale Group  
 File 16:Gale Group PROMT(R) 1990-2005/Jun 17  
     (c) 2005 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
     (c) 1999 The Gale Group  
 File 148:Gale Group Trade & Industry DB 1976-2005/Jun 16  
     (c)2005 The Gale Group  
 File 624:McGraw-Hill Publications 1985-2005/Jun 16  
     (c) 2005 McGraw-Hill Co. Inc  
 File 15:ABI/Inform(R) 1971-2005/Jun 17  
     (c) 2005 ProQuest Info&Learning  
 File 647:CMP Computer Fulltext 1988-2005/May W5  
     (c) 2005 CMP Media, LLC  
 File 674:Computer News Fulltext 1989-2005/Jun W2  
     (c) 2005 IDG Communications  
 File 696:DIALOG Telecom. Newsletters 1995-2005/Jun 16  
     (c) 2005 The Dialog Corp.  
 File 369:New Scientist 1994-2005/Apr W4  
     (c) 2005 Reed Business Information Ltd.

Set	Items	Description
S1	26684	(CLASSIFIED OR CATEGORIZED OR CATEGORISED) (5N) (RECORDS OR - DATA OR INFORMATION OR DOCUMENTS OR CONTENT OR ARTICLES OR INPUT? ? OR ELEMENTS OR ITEMS OR OBJECTS OR FILES)
S2	552	OUTPUT? ?(5N) (CLASSIFIER? ? OR CLASSIFY??? OR CLASSIFICATI- ON OR CATEGORIZ? OR CATEGORIS?)
S3	202450	RULE? ?(5N) (GENERAT? OR PRODUC???? OR CONSTRUCT? OR ESTABL- ISH? OR CREAT???? OR FASHION? OR FORM?? OR FORMING OR FORMATI- ON? ? OR DEVELOP? OR BUILT OR BUILD??? OR COMPUTE OR COMPUTES OR COMPUTED OR COMPUTING)
S4	56858	RULE? ?(5N) (DETERMIN????? OR DISCERN? OR DERIV??? OR CALCUL- A? OR DEFIN??? OR INDUC?????)
S5	68	S1:S2(15N)S3:S4
S6	44	RD (unique items)
S7	14	S6 NOT PY=1998:2005

7/3,K/1 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2005 The Gale Group. All rts. reserv.

01310565 SUPPLIER NUMBER: 07473356 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
The expert is in. (Software Review) (Nexpert Object) (includes related  
articles on Anatomy of an Expert-System Shell and Macintosh Expert-System  
Shells) (evaluation)  
Rasmus, Daniel  
MacUser, v5, n9, p136(11)  
Sept, 1989  
DOCUMENT TYPE: evaluation ISSN: 0884-0997 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 6940 LINE COUNT: 00557

... rule with the IF/THEN/DO format, which allows Nexpert to  
incorporate many complex structures such as rule -modified inferencing and  
creation of new object collections.

Nexpert's rules are a bundle of objects categorized as  
conditional statements, a hypothesis, and actions, all displayed in the  
rule editor (see Figure 4). Its...

7/3,K/2 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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03514840 Supplier Number: 47260327 (USE FORMAT 7 FOR FULLTEXT)  
Digging out hidden opportunities  
Bank Marketing International, n81, pN/A  
April 1, 1997  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 2640

... then splits (at a node) as each new decision is made. This process  
carries on until a data set is classified creating a set of  
generalities or some pre-defined stopping point is met.

Rule Induction : This method develops rules that classify data  
and are often

7/3,K/3 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

05393878 Supplier Number: 50296498 (USE FORMAT 7 FOR FULLTEXT)  
INTELLIGENT AGENTS  
Howlett, Dennis  
Unix & NT News, p18  
Oct, 1997  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 2443

... sees agents in a different context. Marketing manager Dominique  
Verdejo says, 'Our definition is that agents are derived from a business  
rule processor that has the ability to apply rules to objects on the  
systems. Objects are classified as dumb until rules are applied to  
them.' Verdejo goes on to say that agents can provide...

7/3,K/4 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

04010747      Supplier Number: 45825685      (USE FORMAT 7 FOR FULLTEXT)  
**SYSTEMS PUT YOUR HOUSE IN ORDER**  
Transportation & Distribution, p102  
Oct 1, 1995  
Language: English      Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count:      1777

...      while an automated one uses technology. Either way, the system works by applying a set of processing **rules** to data, **producing** recommended actions and **information** .

Primary logistics systems can be **categorized** into four application areas:

\* Forecasting Systems: predict finished product demand for planning purposes;

The table shows System...

7/3,K/5      (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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02124513      Supplier Number: 42755894      (USE FORMAT 7 FOR FULLTEXT)  
**Trade debate hasn't cost sales**  
Automotive News, v66, n5433, p82  
Feb 17, 1992  
Language: English      Record Type: Fulltext  
Document Type: Magazine/Journal; Tabloid; Trade  
Word Count:      470

...      though, has been boasting that its new 1993 MX-6 and 626 will have enough North American **content** to be **classified** as domestic under U.S. fuel-economy **rules** . The cars are **built** in Flat Rock, Mich.

"This is an industry issue. "It's a government issue. It's a...

7/3,K/6      (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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08279282      SUPPLIER NUMBER: 17541426      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Systems put your house in order.(information systems)**  
Dawe, Richard L.  
Transportation & Distribution, v36, n10, p102(3)  
Oct, 1995  
ISSN: 0895-8548      LANGUAGE: English      RECORD TYPE: Fulltext; Abstract  
WORD COUNT:      1881      LINE COUNT:      00163

...      while an automated one uses technology. Either way, the system works by applying a set of processing **rules** to data, **producing** recommended actions and **information** .

Primary logistics systems can be **categorized** into four application areas:

\* Forecasting Systems: predict finished product demand for planning purposes; \* Planning Systems: including materials...

7/3,K/7      (Item 2 from file: 148)  
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07186724      SUPPLIER NUMBER: 15141228      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Intelligent access. (Third Annual International Security Systems Symposium and Exhibition) (Security Spotlight)**

Arbetter, Lisa  
Security Management, v38, n1, p13(1)  
Jan, 1994  
ISSN: 0145-9406      LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 546      LINE COUNT: 00043

... changed significantly before it is finalized, he explained.  
The draft emphasizes a commitment to open government. It **establishes**  
a **rule** that limits the time **information** should remain **classified** to  
ten years (fifteen years for top secret information) and allows for an  
extension at the back...

7/3,K/8      (Item 3 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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06123107      SUPPLIER NUMBER: 12546020      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Three-step method evaluates neural networks for your application. (includes**  
**related article on seven design steps for back-propagation neural**  
**networks) (Tutorial)**  
Lawrence, Jeannette; Andriola, Peter  
EDN, v37, n16, p93(7)  
August 6, 1992  
DOCUMENT TYPE: Tutorial      ISSN: 0012-7515      LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 4572      LINE COUNT: 00350

... can also generate data using simulation software, or by creating  
random examples (inputs) and having human experts **classify** them (to  
identify **outputs** ). In any case, you don't need to **define** underlying  
principles, **rules** , or math. You don't even have to understand how to  
solve the problem. Knowing which data...

7/3,K/9      (Item 4 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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02037355      SUPPLIER NUMBER: 03128729      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Narcotics "our no. 1 crime problem." (interview with William French Smith)**  
U.S. News & World Report, v96, p51(2)  
Feb 6, 1984  
CODEN: XNWRA      ISSN: 0041-5537      LANGUAGE: ENGLISH      RECORD TYPE:  
FULLTEXT  
WORD COUNT: 2201      LINE COUNT: 00170

... on clearing published material would apply only to those who have  
access to the highest category of **classified information** . Under a CIA  
**rule** in effect for many years, **former** officials have submitted material  
for clearance on roughly 1,000 occasions. Changes had to be made about...

7/3,K/10      (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01327057 99-76453  
**A database perspective on knowledge discovery**  
Imielinski, Tomasz; Mannila, Heikki  
Communications of the ACM v39n11 PP: 58-64 Nov 1996  
ISSN: 0001-0782 JRNL CODE: ACM  
WORD COUNT: 4512

...TEXT: specified through a database query) with user-defined attributes

7/3,K/14 (Item 5 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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00264385 85-04818

**Safety and QA in Nuclear Power Plants: A Quality Management Standard**

Jolivet, F.; Noel-Leroux, J. P.; Vu Hong, L.

Quality Progress v18n1 PP: 38-42 Jan 1985

ISSN: 0033-524X JRNL CODE: QPR

...ABSTRACT: and components can be grouped according to their importance to safety. The classifications can be used to establish design and construction rules that ensure structural integrity and quality commensurate with the relative importance of the individual items. Buildings, structures, and items are classified in quality assurance levels in design, manufacturing, or construction. In each classification, several factors must be taken...



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